Geometry Name_____

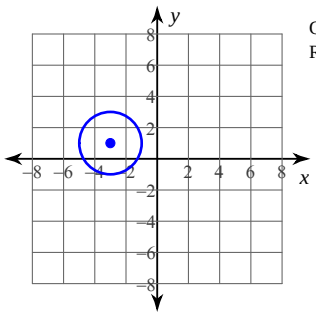
Assignment

Date_____ Period____

Identify the center and radius of each. Then sketch the graph.

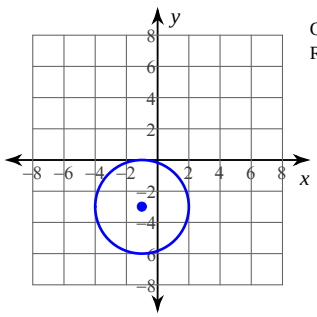
1) $(x+3)^2+(y-1)^2=9$

A)



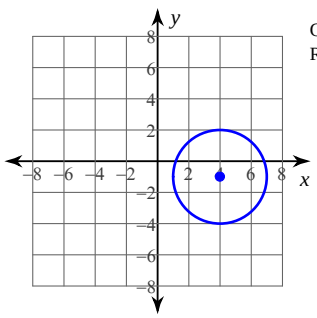
Center: $(-3, 1)$
Radius: 2

B)



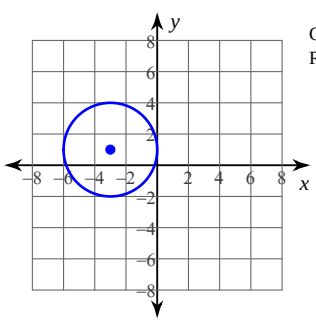
Center: $(-1, -3)$
Radius: 3

C)



Center: $(4, -1)$
Radius: 3

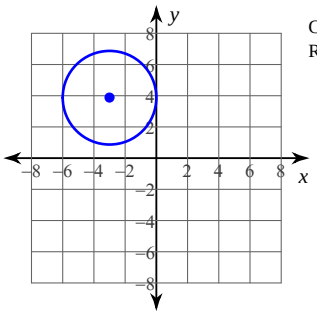
D)



Center: $(-3, 1)$
Radius: 3

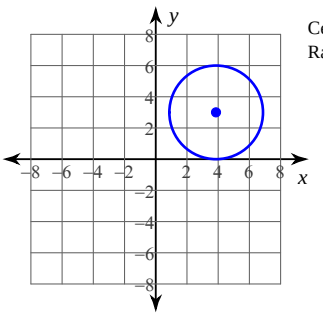
2) $\left(x-\sqrt{15}\right)^2+(y-3)^2=9$

A)



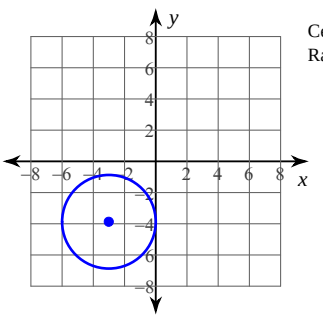
Center: $\left(-3, \sqrt{15}\right)$
Radius: 3

B)



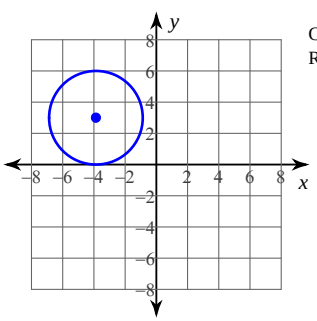
Center: $\left(\sqrt{15}, 3\right)$
Radius: 3

C)



Center: $\left(-3, -\sqrt{15}\right)$
Radius: 3

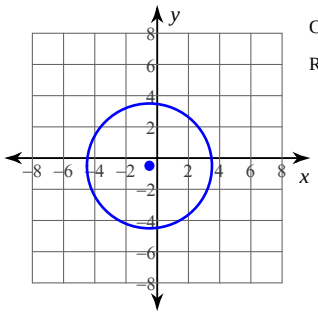
D)



Center: $\left(-\sqrt{15}, 3\right)$
Radius: 3

3) $\left(x-\frac{1}{2}\right)^2+\left(y+\frac{1}{2}\right)^2=4$

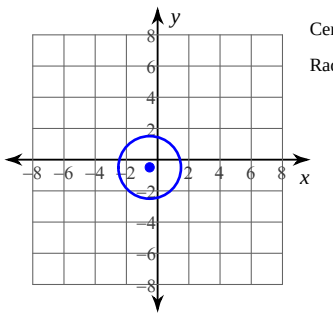
A)



Center: $\left(-\frac{1}{2},-\frac{1}{2}\right)$

Radius: 4

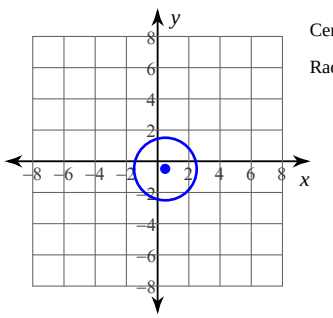
B)



Center: $\left(-\frac{1}{2},-\frac{1}{2}\right)$

Radius: 2

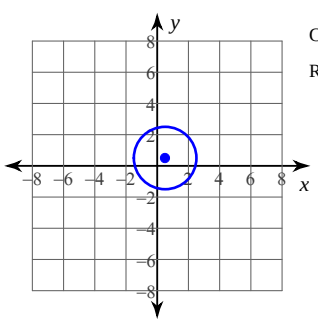
C)



Center: $\left(\frac{1}{2},-\frac{1}{2}\right)$

Radius: 2

D)

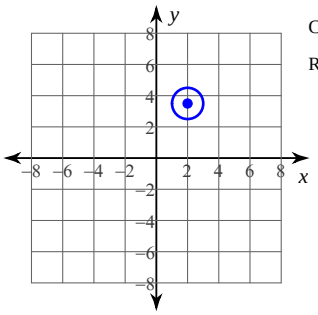


Center: $\left(\frac{1}{2},\frac{1}{2}\right)$

Radius: 2

4) $(x-2)^2+\left(y-\frac{7}{2}\right)^2=7$

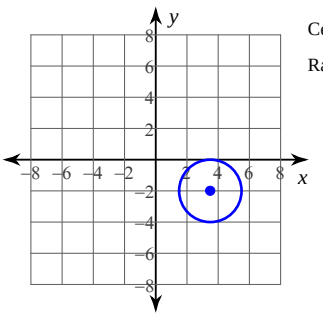
A)



Center: $\left(2,\frac{7}{2}\right)$

Radius: 1

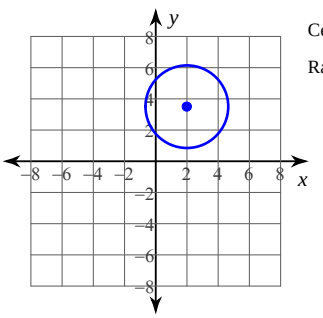
B)



Center: $\left(\frac{7}{2},-2\right)$

Radius: 2

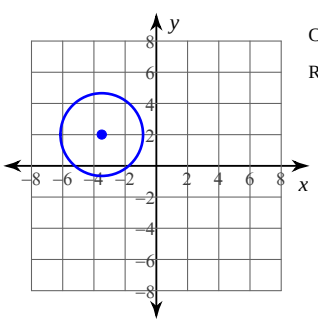
C)



Center: $\left(2,\frac{7}{2}\right)$

Radius: $\sqrt{7}$

D)

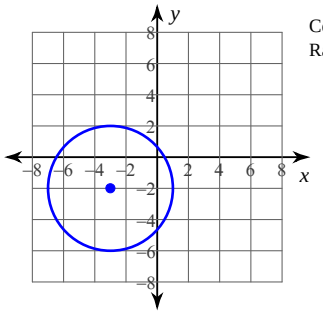


Center: $\left(-\frac{7}{2},2\right)$

Radius: $\sqrt{7}$

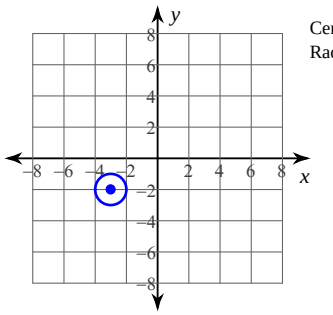
5) $(x+3)^2+(y+2)^2=16$

A)



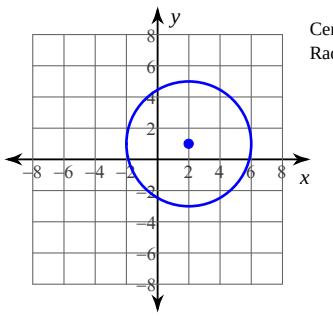
Center: (–3, –2)
Radius: 4

B)



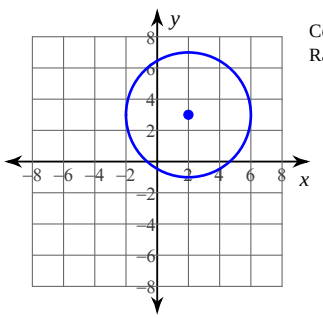
Center: (–3, –2)
Radius: 1

C)



Center: (2, 1)
Radius: 4

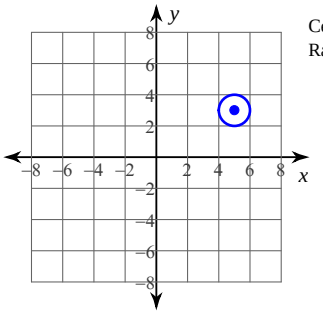
D)



Center: (2, 3)
Radius: 4

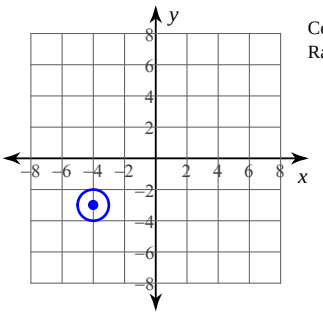
6) $(x+4)^2+(y+3)^2=1$

A)



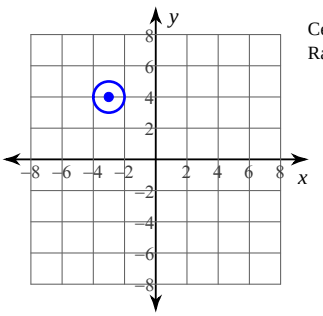
Center: (5, 3)
Radius: 1

B)



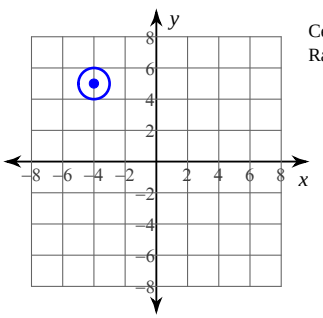
Center: (–4, –3)
Radius: 1

C)



Center: (–3, 4)
Radius: 1

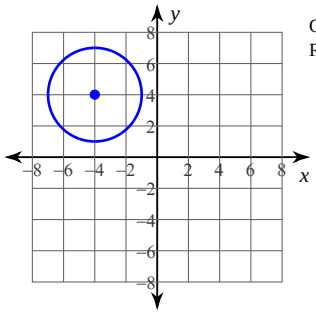
D)



Center: (–4, 5)
Radius: 1

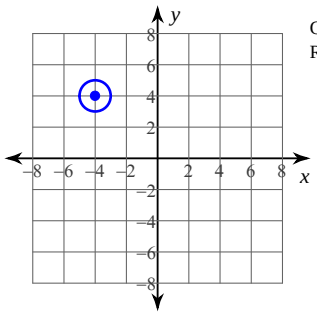
7) $(x+4)^2+(y-4)^2=1$

A)



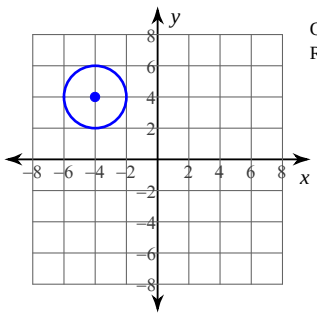
Center: (–4, 4)
Radius: 3

B)



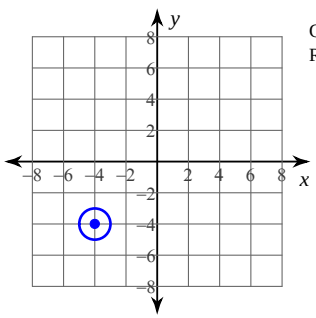
Center: (–4, 4)
Radius: 1

C)



Center: (–4, 4)
Radius: 2

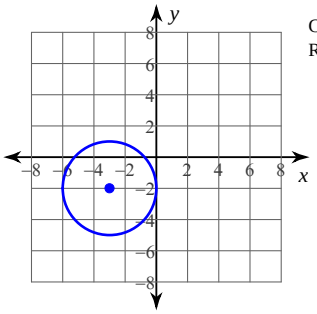
D)



Center: (–4, –4)
Radius: 1

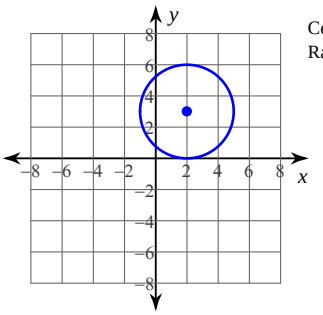
8) $(x+3)^2+(y-2)^2=9$

A)



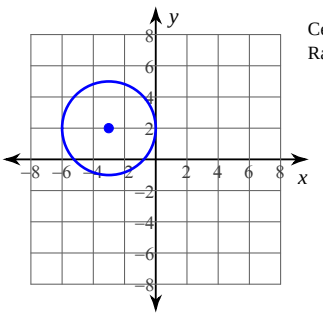
Center: (–3, –2)
Radius: 3

B)



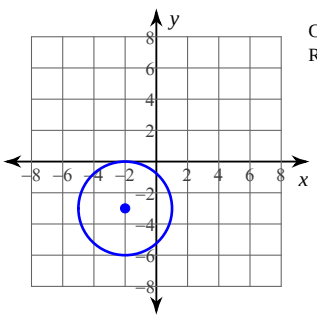
Center: (2, 3)
Radius: 3

C)



Center: (–3, 2)
Radius: 3

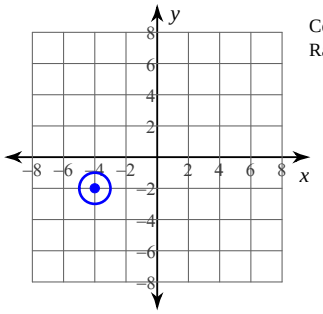
D)



Center: (–2, –3)
Radius: 3

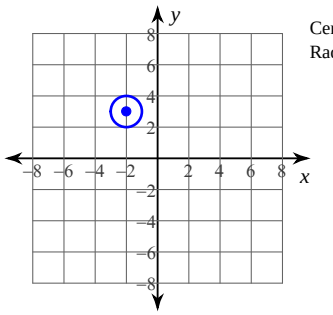
9) $(x+4)^2+(y+2)^2=1$

A)



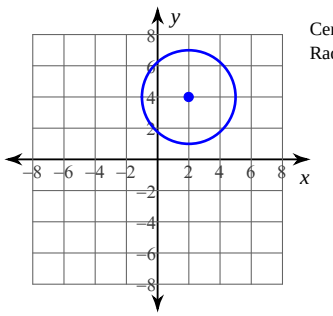
Center: (–4, –2)
Radius: 1

B)



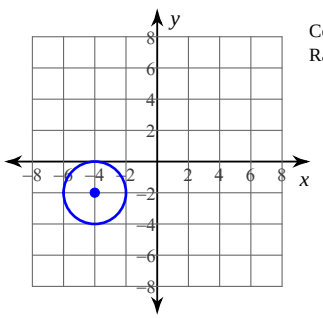
Center: (–2, 3)
Radius: 1

C)



Center: (2, 4)
Radius: 3

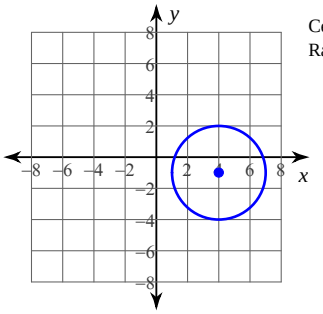
D)



Center: (–4, –2)
Radius: 2

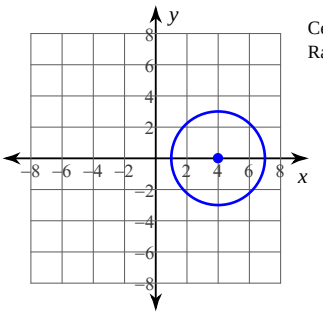
10) $(x+4)^2+y^2=9$

A)



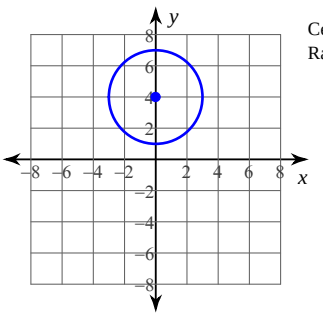
Center: (4, –1)
Radius: 3

B)



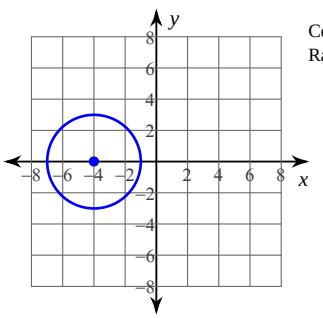
Center: (4, 0)
Radius: 3

C)



Center: (0, 4)
Radius: 3

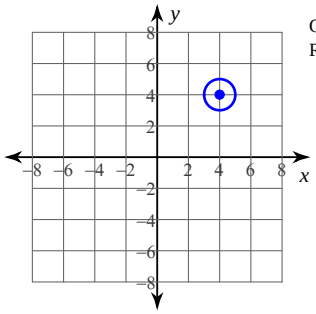
D)



Center: (–4, 0)
Radius: 3

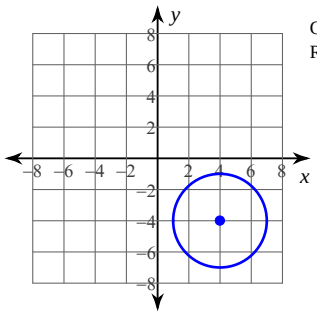
11) $(x-4)^2+(y+4)^2=1$

A)



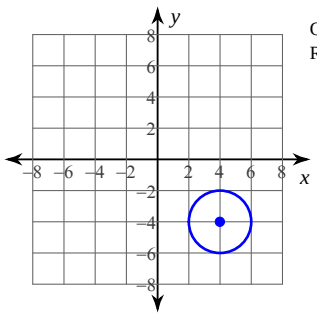
Center: (4, 4)
Radius: 1

B)



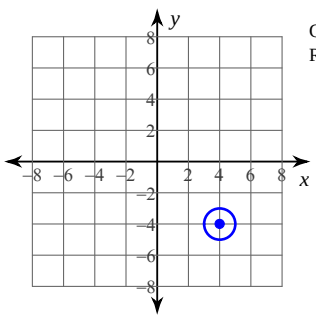
Center: (4, –4)
Radius: 3

C)



Center: (4, –4)
Radius: 2

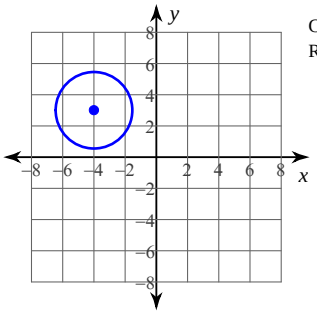
D)



Center: (4, –4)
Radius: 1

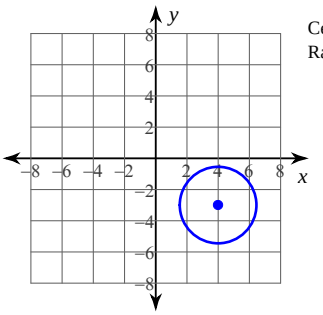
12) $(x-4)^2+(y-3)^2=6$

A)



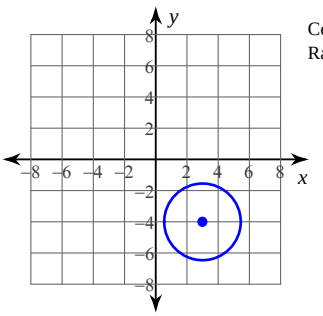
Center: (–4, 3)
Radius: $\sqrt{6}$

B)



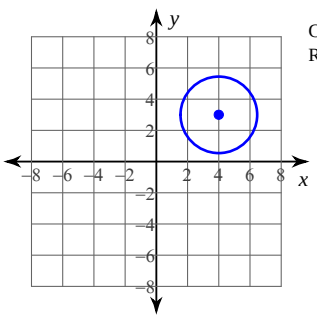
Center: (4, –3)
Radius: $\sqrt{6}$

C)



Center: (3, –4)
Radius: $\sqrt{6}$

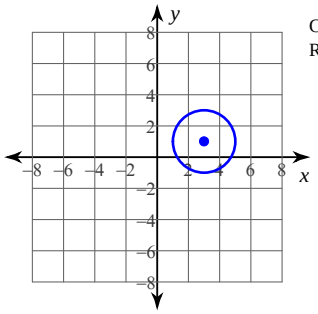
D)



Center: (4, 3)
Radius: $\sqrt{6}$

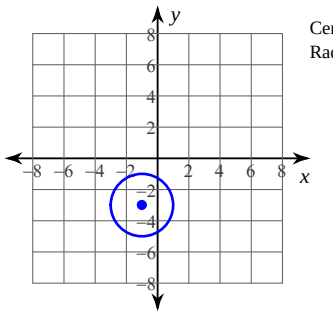
13) $(x-3)^2+(y-1)^2=4$

A)



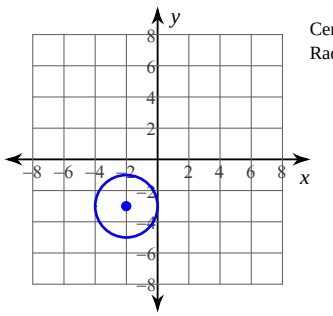
Center: (3, 1)
Radius: 2

B)



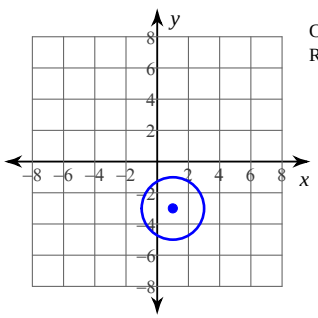
Center: (−1, −3)
Radius: 2

C)



Center: (−2, −3)
Radius: 2

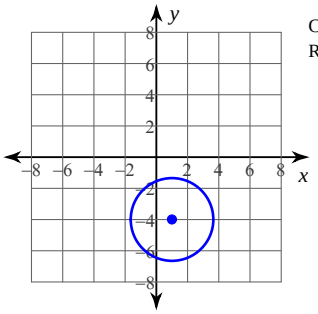
D)



Center: (1, −3)
Radius: 2

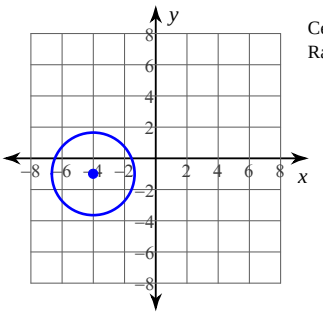
14) $(x-4)^2+(y+1)^2=7$

A)



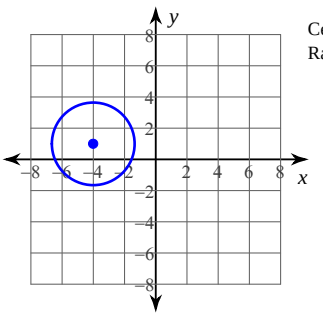
Center: (1, −4)
Radius: $\sqrt{7}$

B)



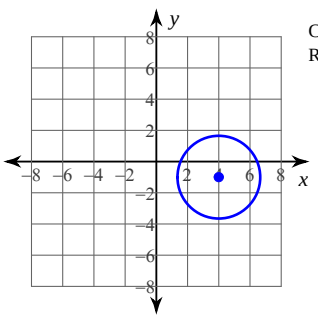
Center: (−4, −1)
Radius: $\sqrt{7}$

C)



Center: (−4, 1)
Radius: $\sqrt{7}$

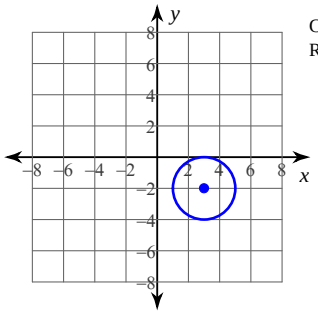
D)



Center: (4, −1)
Radius: $\sqrt{7}$

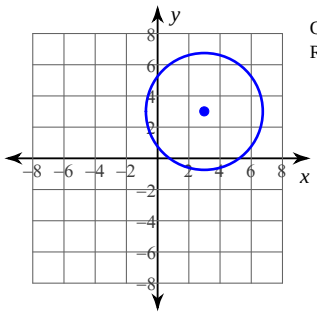
15) $(x-3)^2+(y+2)^2=14$

A)



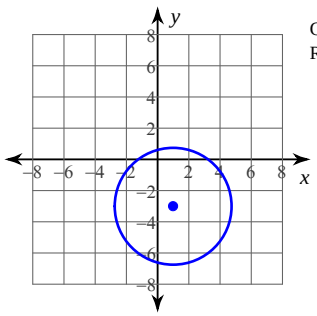
Center: (3, –2)
Radius: 2

B)



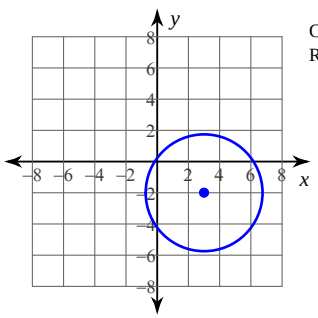
Center: (3, 3)
Radius: $\sqrt{14}$

C)



Center: (1, –3)
Radius: $\sqrt{14}$

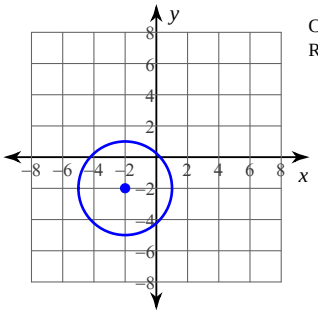
D)



Center: (3, –2)
Radius: $\sqrt{14}$

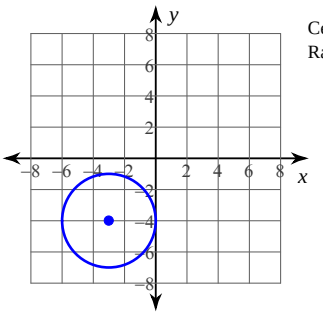
16) $(x-3)^2+(y-4)^2=9$

A)



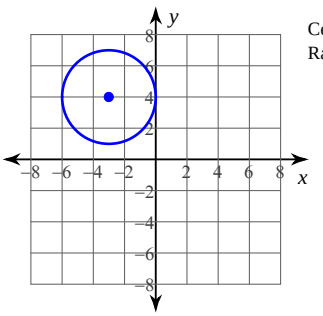
Center: (–2, –2)
Radius: 3

B)



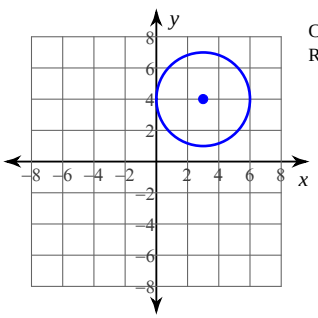
Center: (–3, –4)
Radius: 3

C)



Center: (–3, 4)
Radius: 3

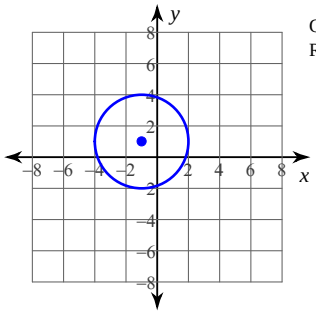
D)



Center: (3, 4)
Radius: 3

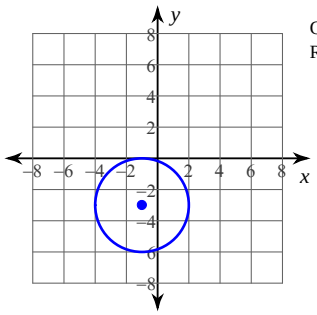
17) $(x-2)^2 + y^2 = 9$

A)



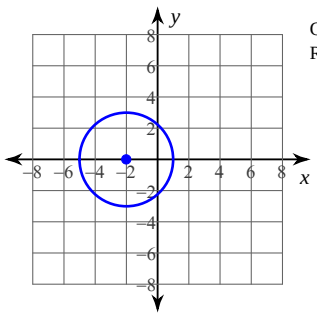
Center: $(-1, 1)$
Radius: 3

B)



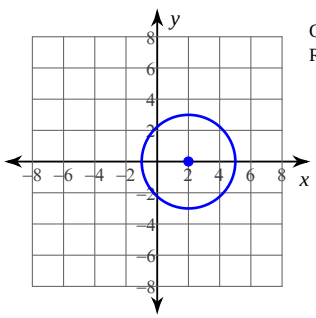
Center: $(-1, -3)$
Radius: 3

C)



Center: $(-2, 0)$
Radius: 3

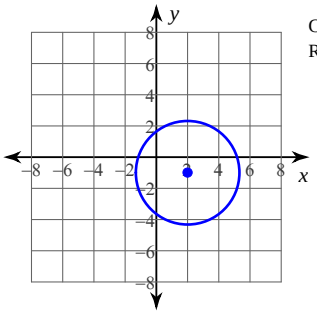
D)



Center: $(2, 0)$
Radius: 3

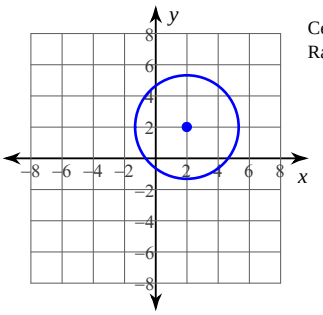
18) $(x-2)^2 + (y-2)^2 = 11$

A)



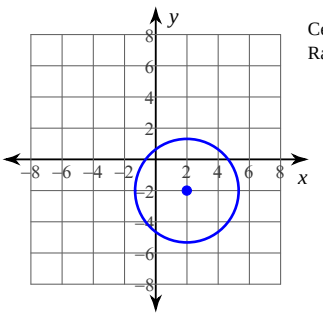
Center: $(2, -1)$
Radius: $\sqrt{11}$

B)



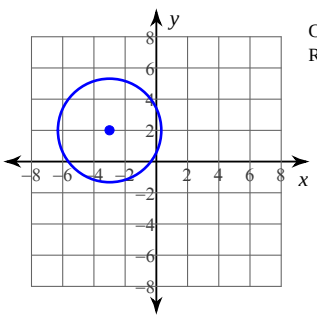
Center: $(2, 2)$
Radius: $\sqrt{11}$

C)



Center: $(2, -2)$
Radius: $\sqrt{11}$

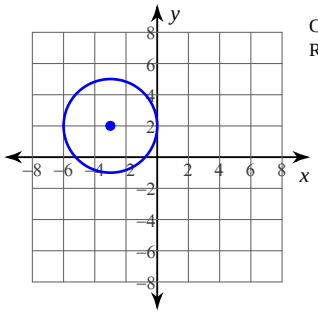
D)



Center: $(-3, 2)$
Radius: $\sqrt{11}$

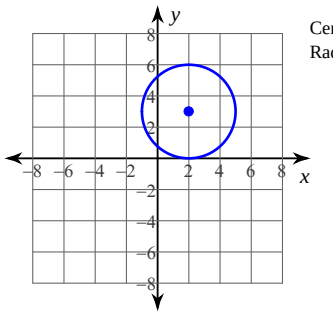
19) $(x-2)^2+(y-3)^2=9$

A)



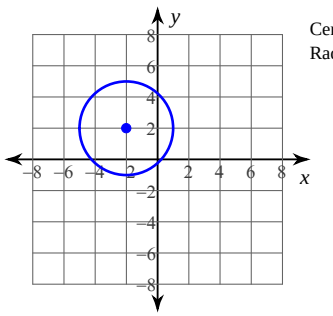
Center: (–3, 2)
Radius: 3

B)



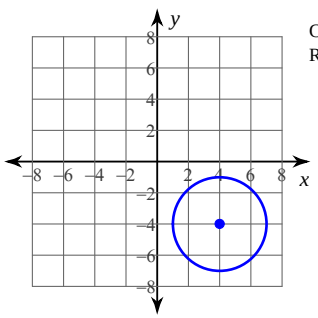
Center: (2, 3)
Radius: 3

C)



Center: (–2, 2)
Radius: 3

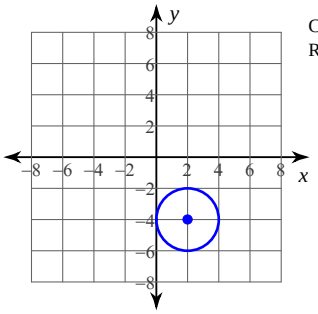
D)



Center: (4, –4)
Radius: 3

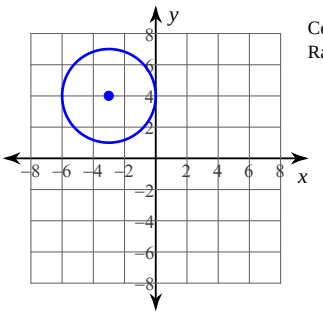
20) $(x-2)^2+(y+4)^2=1$

A)



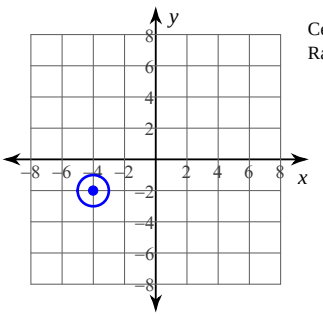
Center: (2, –4)
Radius: 2

B)



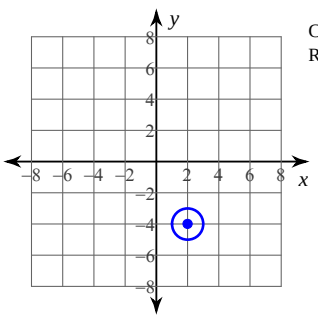
Center: (–3, 4)
Radius: 3

C)



Center: (–4, –2)
Radius: 1

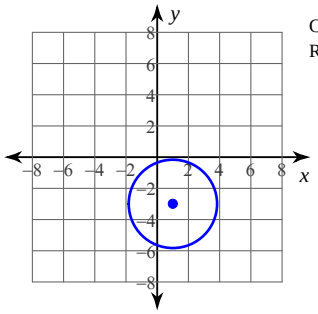
D)



Center: (2, –4)
Radius: 1

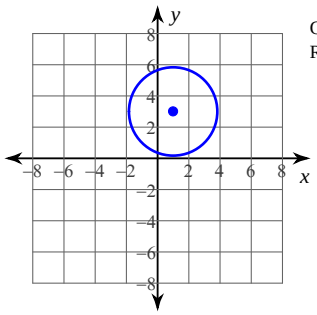
21) $(x-3)^2+(y+1)^2=8$

A)



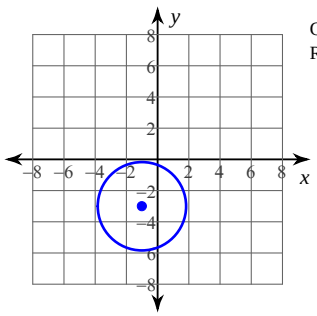
Center: $(1, -3)$
Radius: $2\sqrt{2}$

B)



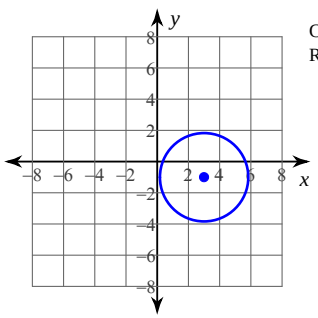
Center: $(1, 3)$
Radius: $2\sqrt{2}$

C)



Center: $(-1, -3)$
Radius: $2\sqrt{2}$

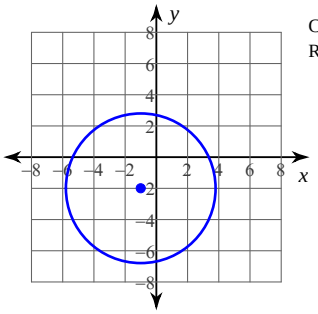
D)



Center: $(3, -1)$
Radius: $2\sqrt{2}$

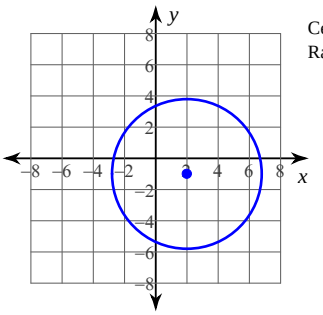
22) $(x-1)^2+(y-2)^2=23$

A)



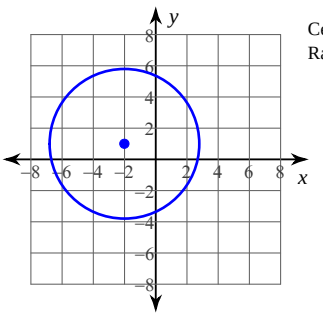
Center: $(-1, -2)$
Radius: $\sqrt{23}$

B)



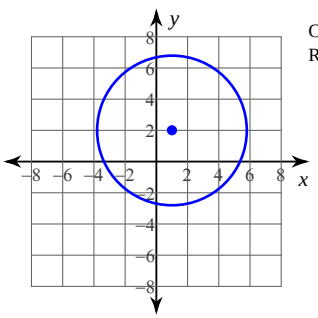
Center: $(2, -1)$
Radius: $\sqrt{23}$

C)



Center: $(-2, 1)$
Radius: $\sqrt{23}$

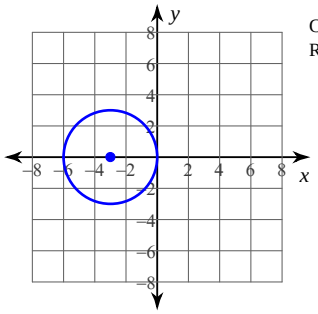
D)



Center: $(1, 2)$
Radius: $\sqrt{23}$

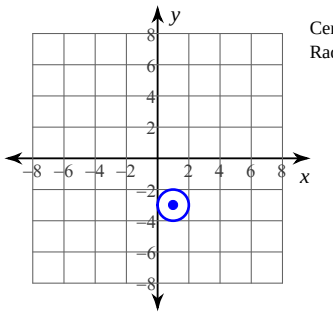
23) $x^2 + (y+3)^2 = 9$

A)



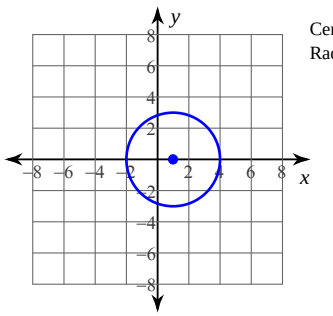
Center: $(-3, 0)$
Radius: 3

B)



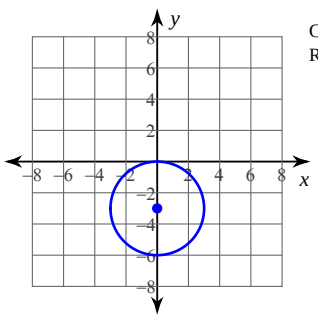
Center: $(1, -3)$
Radius: 1

C)



Center: $(1, 0)$
Radius: 3

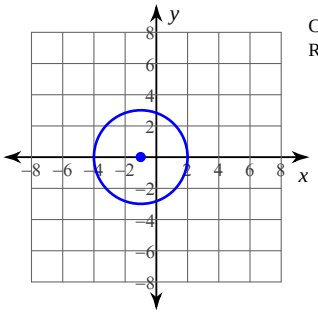
D)



Center: $(0, -3)$
Radius: 3

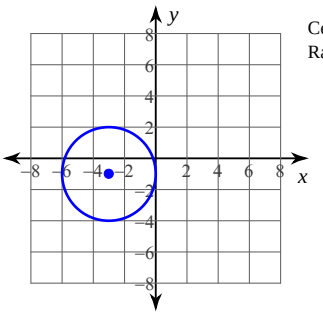
24) $(x-1)^2 + y^2 = 9$

A)



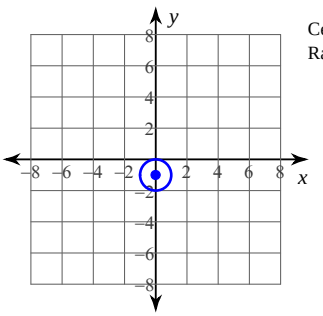
Center: $(-1, 0)$
Radius: 3

B)



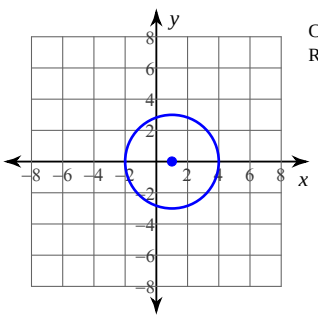
Center: $(-3, -1)$
Radius: 3

C)



Center: $(0, -1)$
Radius: 1

D)



Center: $(1, 0)$
Radius: 3

Answers to Assignment (ID: 1)

1) D
2) B
3) C
4) C
5) A
6) B
7) B
8) C
9) A
10) D
11) D
12) D
13) A
14) D
15) D
16) D
17) D
18) B
19) B
20) D
21) D
22) D
23) D
24) D

Geometry Name_____

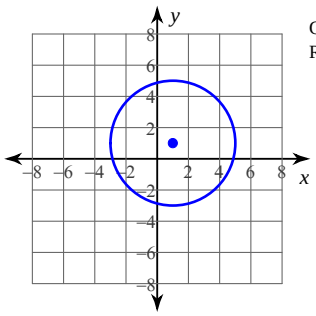
Assignment

Date_____ Period____

Identify the center and radius of each. Then sketch the graph.

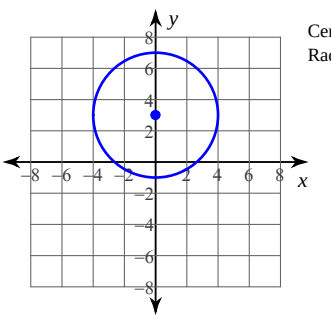
1) $(x+1)^2+(y+1)^2=16$

A)



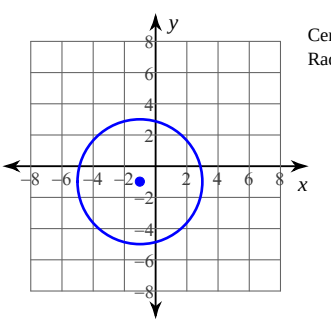
Center: (1, 1)
Radius: 4

B)



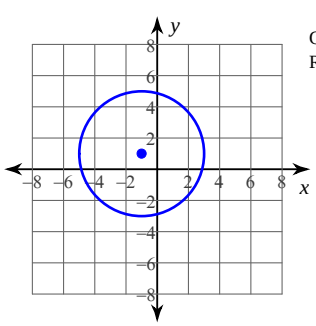
Center: (0, 3)
Radius: 4

C)



Center: (−1, −1)
Radius: 4

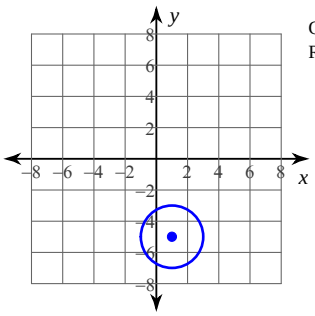
D)



Center: (−1, 1)
Radius: 4

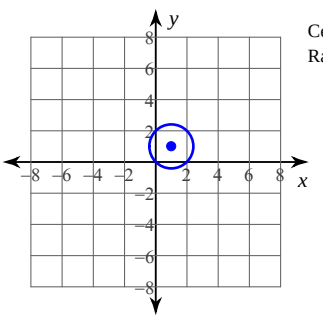
2) $x^2+(y-3)^2=2$

A)



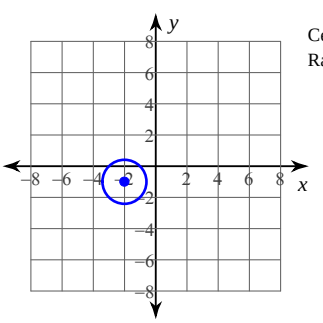
Center: (1, −5)
Radius: 2

B)



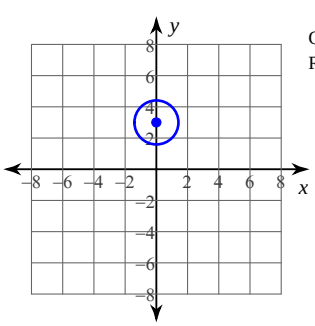
Center: (1, 1)
Radius: $\sqrt{2}$

C)



Center: (−2, −1)
Radius: $\sqrt{2}$

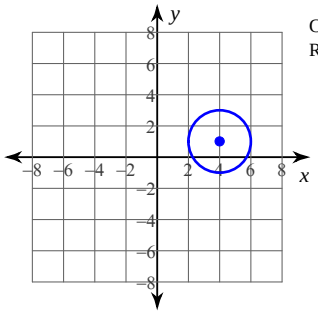
D)



Center: (0, 3)
Radius: $\sqrt{2}$

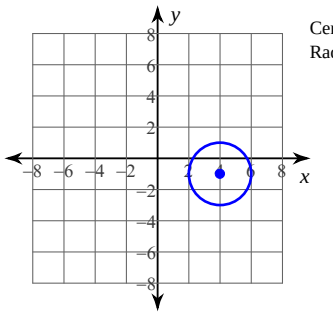
3) $(x-1)^2+(y+4)^2=4$

A)



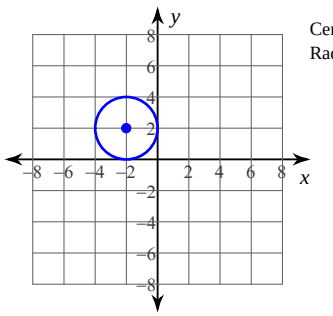
Center: (4, 1)
Radius: 2

B)



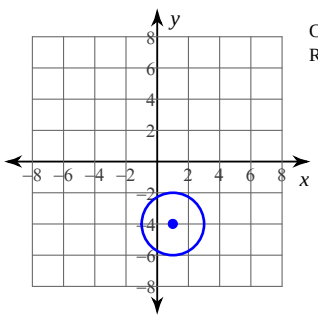
Center: (4, –1)
Radius: 2

C)



Center: (–2, 2)
Radius: 2

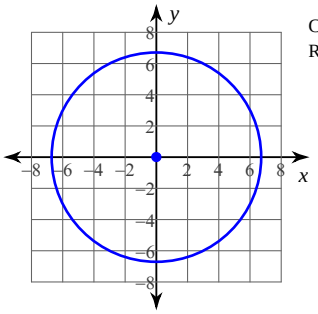
D)



Center: (1, –4)
Radius: 2

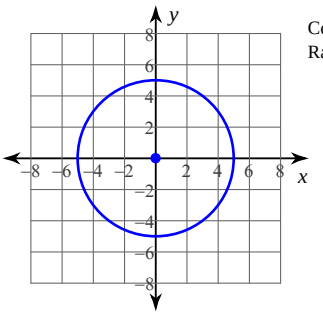
4) $x^2+y^2=45$

A)



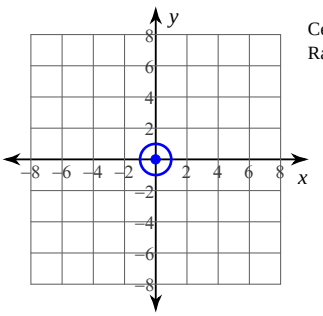
Center: (0, 0)
Radius: $3\sqrt{5}$

B)



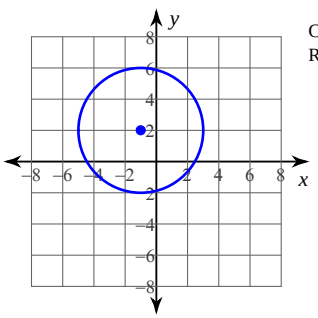
Center: (0, 0)
Radius: 5

C)



Center: (0, 0)
Radius: 1

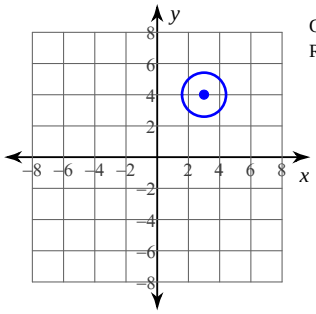
D)



Center: (–1, 2)
Radius: 4

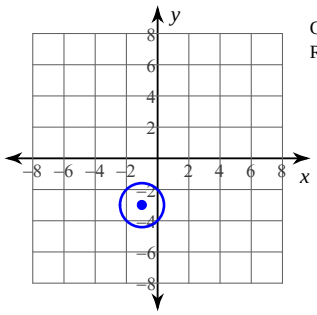
5) $(x+1)^2+(y+3)^2=2$

A)



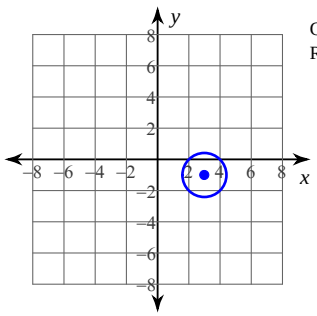
Center: $(3, 4)$
Radius: $\sqrt{2}$

B)



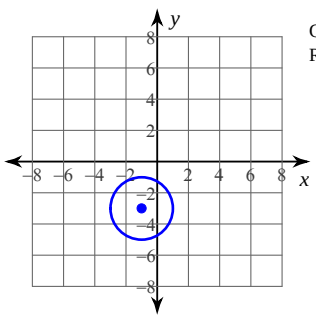
Center: $(-1, -3)$
Radius: $\sqrt{2}$

C)



Center: $(3, -1)$
Radius: $\sqrt{2}$

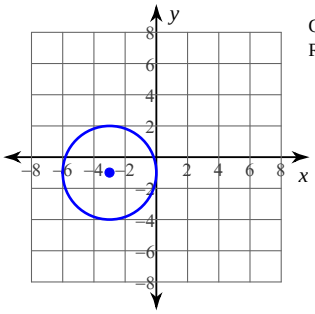
D)



Center: $(-1, -3)$
Radius: 2

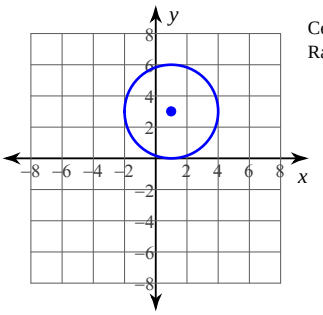
6) $(x-1)^2+(y-3)^2=9$

A)



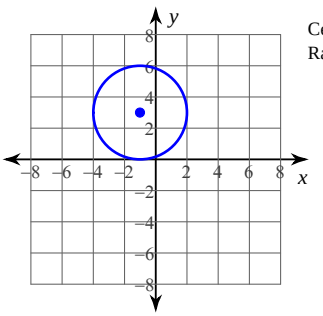
Center: $(-3, -1)$
Radius: 3

B)



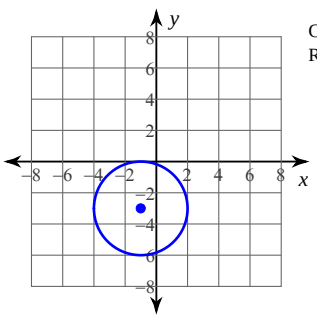
Center: $(1, 3)$
Radius: 3

C)



Center: $(-1, 3)$
Radius: 3

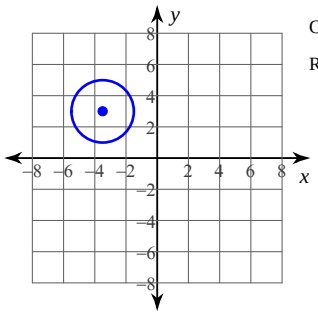
D)



Center: $(-1, -3)$
Radius: 3

7) $\left(x+\frac{7}{2}\right)^2+(y-3)^2=4$

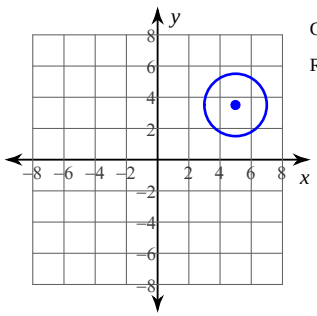
A)



Center: $\left(-\frac{7}{2}, 3\right)$

Radius: 2

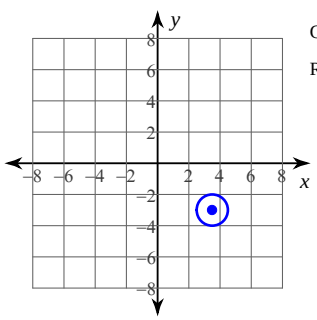
B)



Center: $\left(5, \frac{7}{2}\right)$

Radius: 2

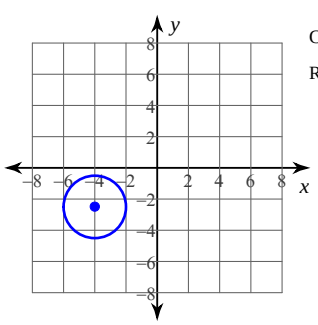
C)



Center: $\left(\frac{7}{2}, -3\right)$

Radius: 1

D)

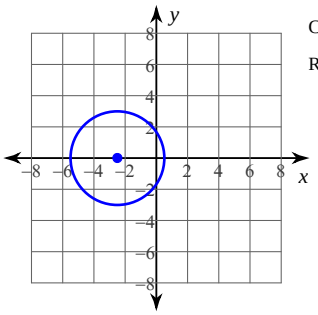


Center: $\left(-4, -\frac{5}{2}\right)$

Radius: 2

8) $x^2+\left(y-\frac{5}{2}\right)^2=9$

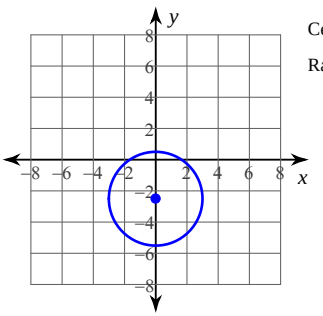
A)



Center: $\left(-\frac{5}{2}, 0\right)$

Radius: 3

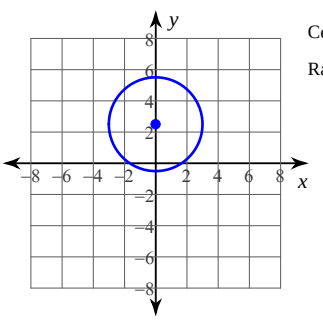
B)



Center: $\left(0, -\frac{5}{2}\right)$

Radius: 3

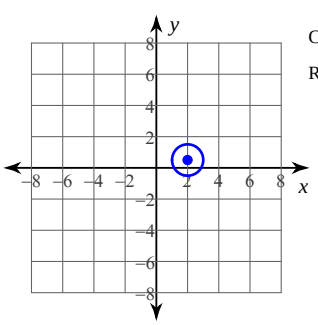
C)



Center: $\left(0, \frac{5}{2}\right)$

Radius: 3

D)

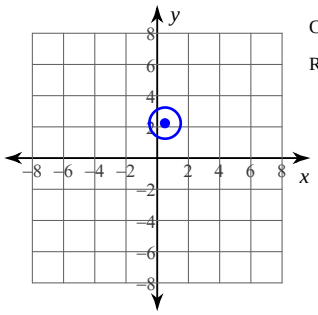


Center: $\left(2, \frac{1}{2}\right)$

Radius: 1

9) $\left(x-\frac{1}{2}\right)^2+\left(y-\sqrt{5}\right)^2=1$

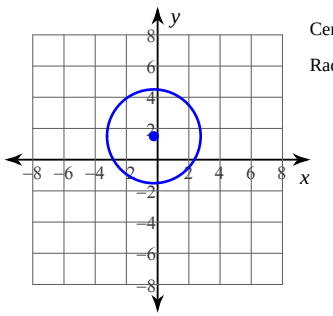
A)



Center: $\left(\frac{1}{2}, \sqrt{5}\right)$

Radius: 1

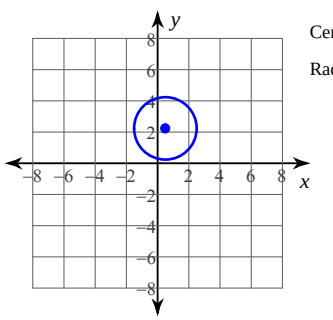
B)



Center: $\left(-\sqrt{5}+2, \frac{3}{2}\right)$

Radius: 3

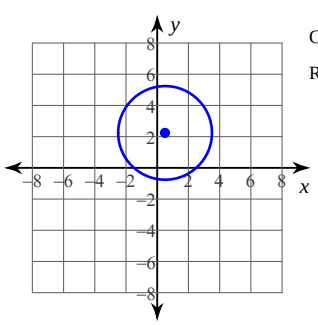
C)



Center: $\left(\frac{1}{2}, \sqrt{5}\right)$

Radius: 2

D)

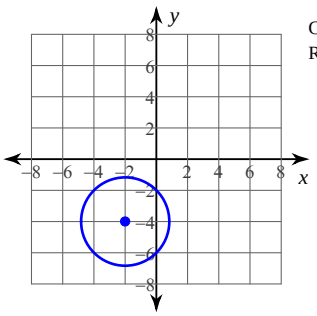


Center: $\left(\frac{1}{2}, \sqrt{5}\right)$

Radius: 3

10) $(x+2)^2+(y+4)^2=8$

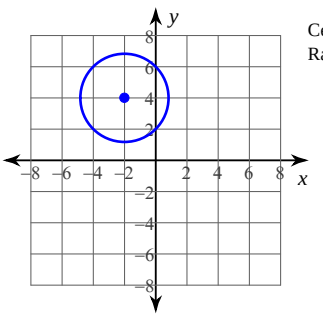
A)



Center: $(-2, -4)$

Radius: $2\sqrt{2}$

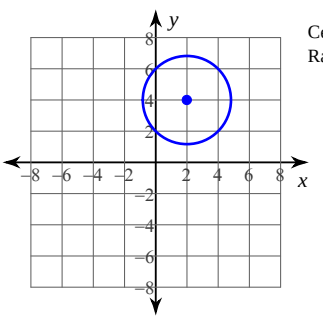
B)



Center: $(-2, 4)$

Radius: $2\sqrt{2}$

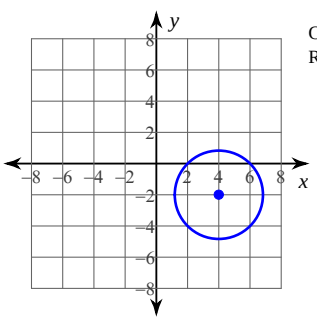
C)



Center: $(2, 4)$

Radius: $2\sqrt{2}$

D)

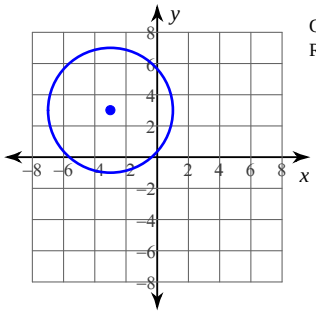


Center: $(4, -2)$

Radius: $2\sqrt{2}$

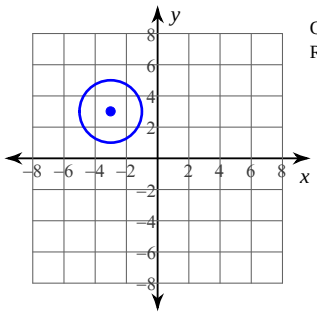
11) $(x+3)^2+(y-3)^2=4$

A)



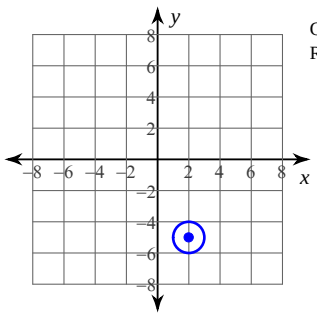
Center: (–3, 3)
Radius: 4

B)



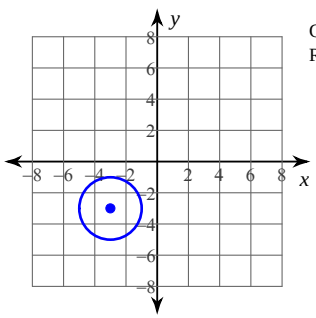
Center: (–3, 3)
Radius: 2

C)



Center: (2, –5)
Radius: 1

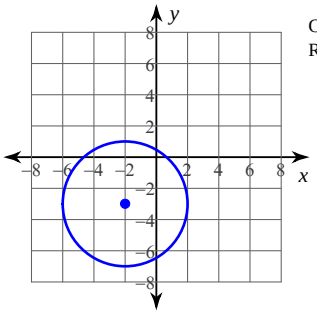
D)



Center: (–3, –3)
Radius: 2

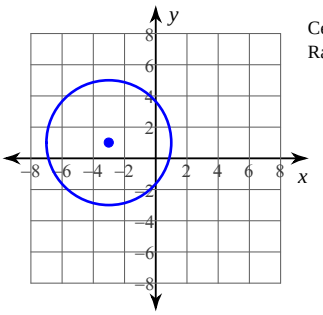
12) $(x+3)^2+(y-1)^2=4$

A)



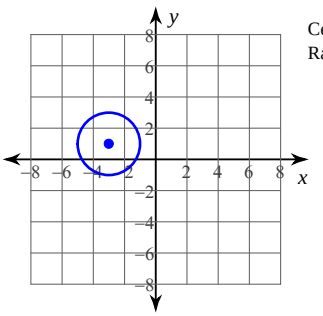
Center: (–2, –3)
Radius: 4

B)



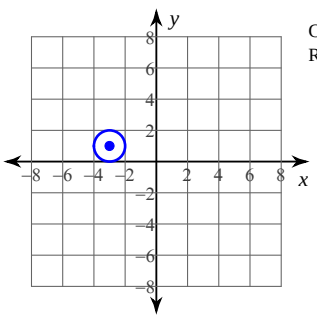
Center: (–3, 1)
Radius: 4

C)



Center: (–3, 1)
Radius: 2

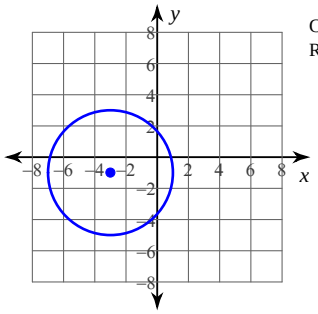
D)



Center: (–3, 1)
Radius: 1

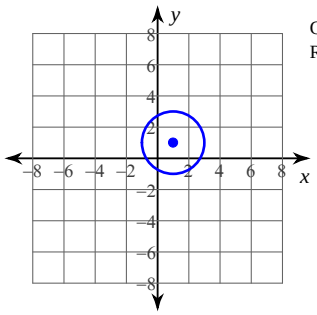
13) $(x+3)^2+(y+1)^2=4$

A)



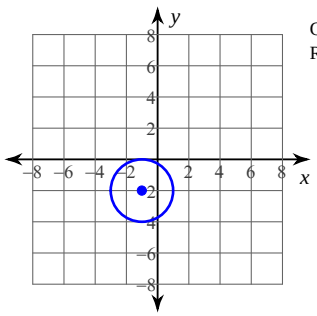
Center: (–3, –1)
Radius: 4

B)



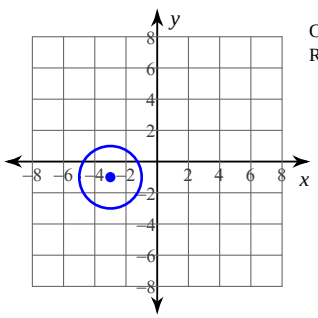
Center: (1, 1)
Radius: 2

C)



Center: (–1, –2)
Radius: 2

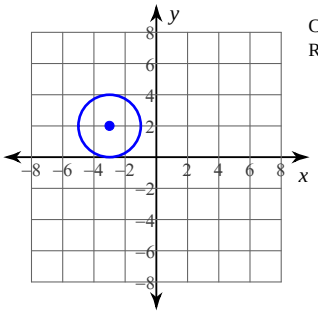
D)



Center: (–3, –1)
Radius: 2

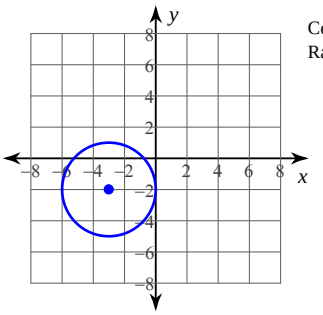
14) $(x+3)^2+(y+2)^2=1$

A)



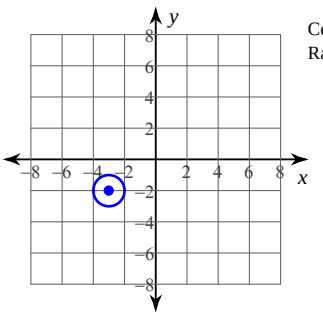
Center: (–3, 2)
Radius: 2

B)



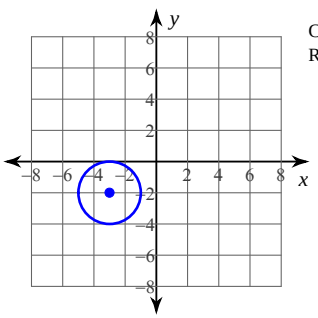
Center: (–3, –2)
Radius: 3

C)



Center: (–3, –2)
Radius: 1

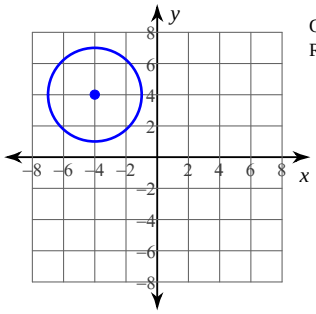
D)



Center: (–3, –2)
Radius: 2

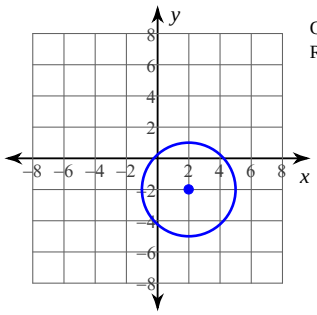
15) $(x+4)^2+(y-4)^2=3$

A)



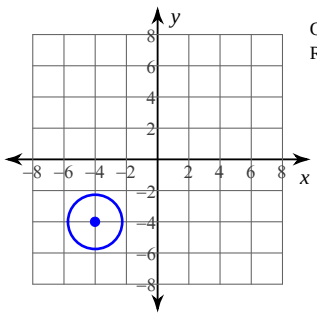
Center: (–4, 4)
Radius: 3

B)



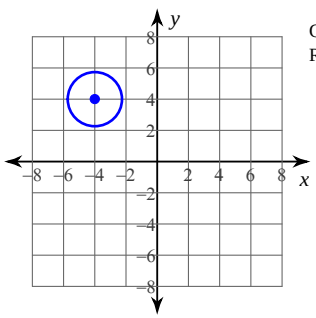
Center: (2, –2)
Radius: 3

C)



Center: (–4, –4)
Radius: $\sqrt{3}$

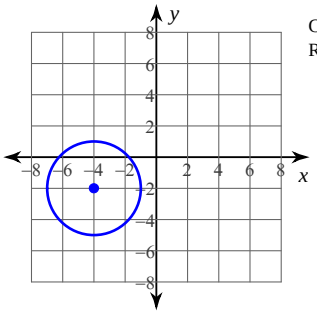
D)



Center: (–4, 4)
Radius: $\sqrt{3}$

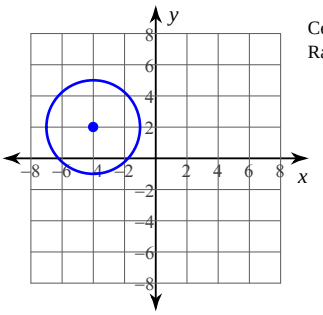
16) $(x+4)^2+(y-2)^2=9$

A)



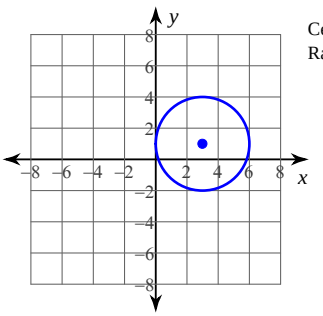
Center: (–4, –2)
Radius: 3

B)



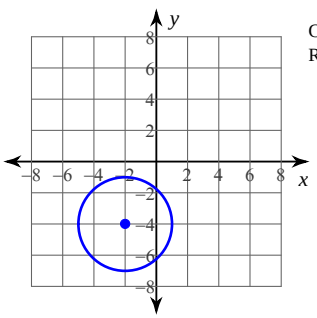
Center: (–4, 2)
Radius: 3

C)



Center: (3, 1)
Radius: 3

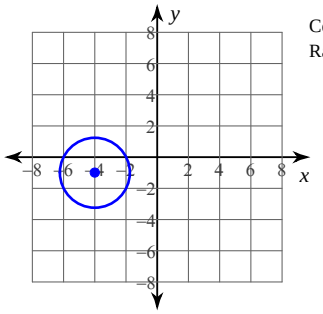
D)



Center: (–2, –4)
Radius: 3

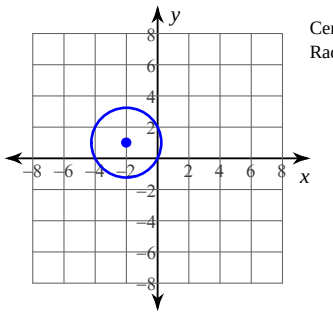
17) $(x+4)^2+(y-1)^2=5$

A)



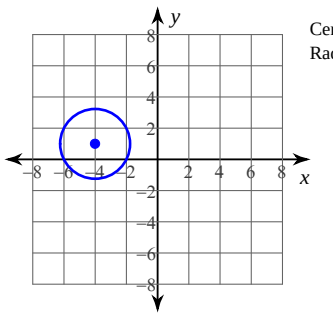
Center: $(-4, -1)$
Radius: $\sqrt{5}$

B)



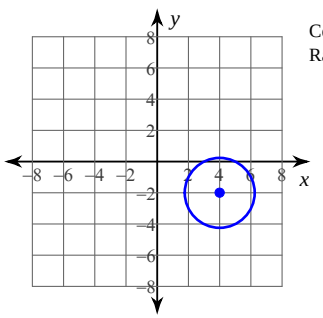
Center: $(-2, 1)$
Radius: $\sqrt{5}$

C)



Center: $(-4, 1)$
Radius: $\sqrt{5}$

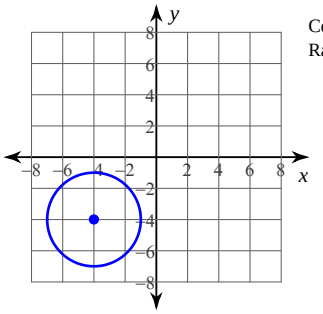
D)



Center: $(4, -2)$
Radius: $\sqrt{5}$

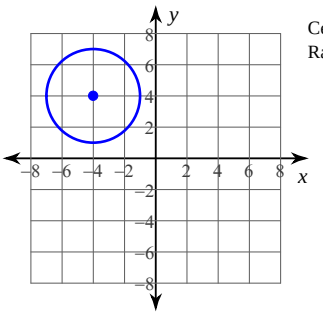
18) $(x+4)^2+(y+4)^2=9$

A)



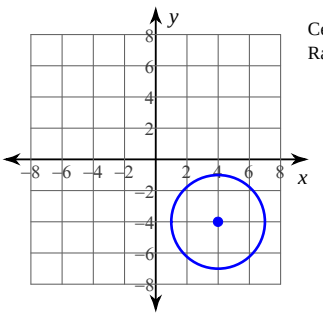
Center: $(-4, -4)$
Radius: 3

B)



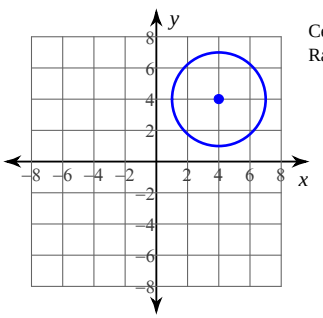
Center: $(-4, 4)$
Radius: 3

C)



Center: $(4, -4)$
Radius: 3

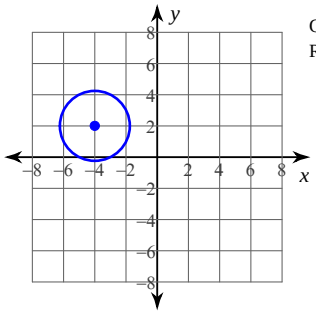
D)



Center: $(4, 4)$
Radius: 3

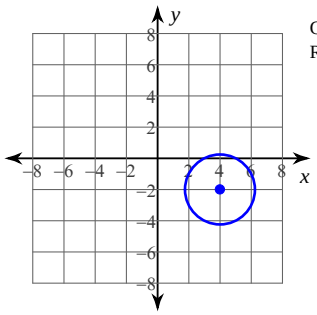
19) $(x-4)^2+(y+2)^2=5$

A)



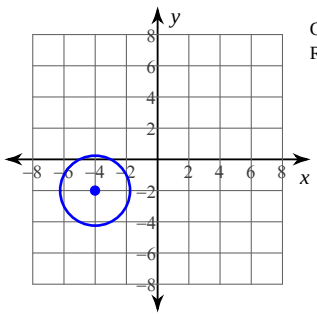
Center: $(-4, 2)$
Radius: $\sqrt{5}$

B)



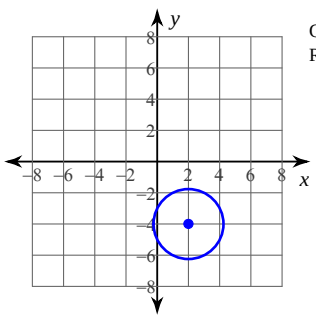
Center: $(4, -2)$
Radius: $\sqrt{5}$

C)



Center: $(-4, -2)$
Radius: $\sqrt{5}$

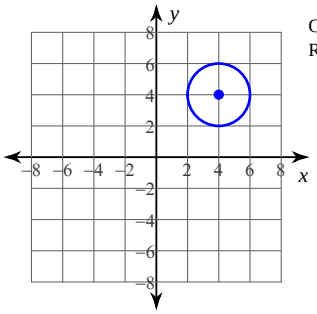
D)



Center: $(2, -4)$
Radius: $\sqrt{5}$

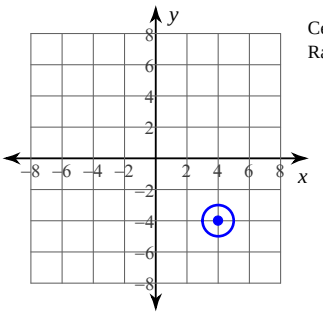
20) $(x-4)^2+(y-4)^2=1$

A)



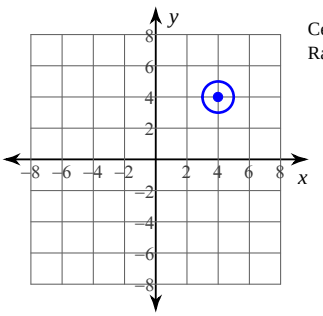
Center: $(4, 4)$
Radius: 2

B)



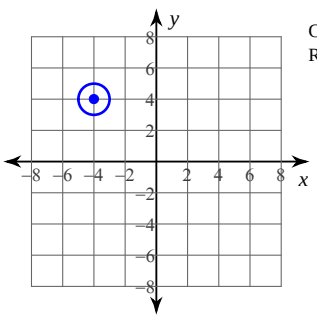
Center: $(4, -4)$
Radius: 1

C)



Center: $(4, 4)$
Radius: 1

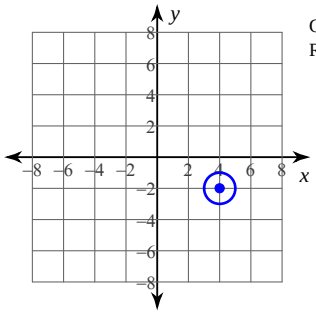
D)



Center: $(-4, 4)$
Radius: 1

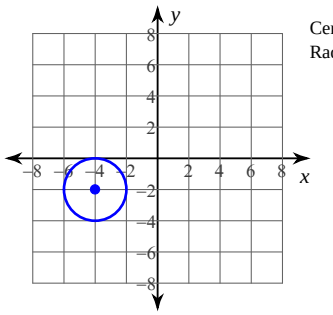
21) $(x-4)^2+(y-2)^2=4$

A)



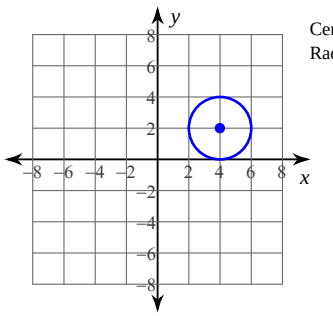
Center: (4, –2)
Radius: 1

B)



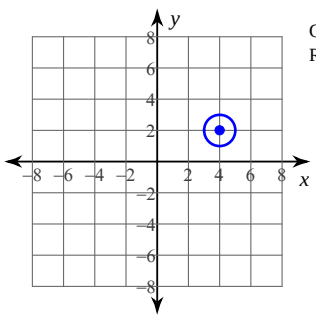
Center: (–4, –2)
Radius: 2

C)



Center: (4, 2)
Radius: 2

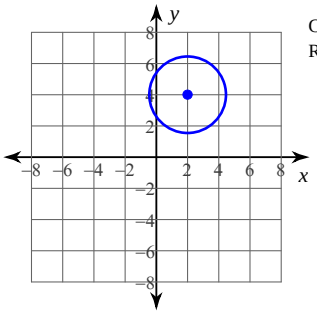
D)



Center: (4, 2)
Radius: 1

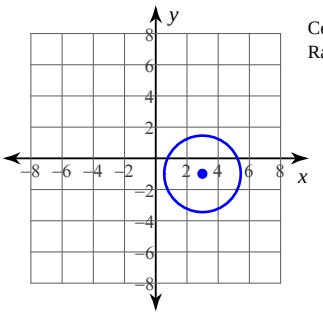
22) $(x-3)^2+(y+1)^2=6$

A)



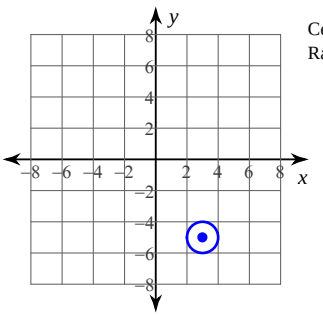
Center: (2, 4)
Radius: $\sqrt{6}$

B)



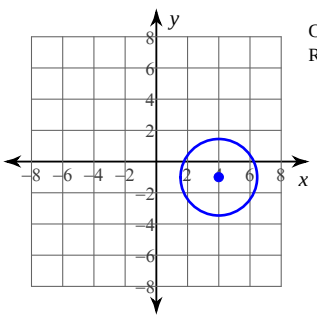
Center: (3, –1)
Radius: $\sqrt{6}$

C)



Center: (3, –5)
Radius: 1

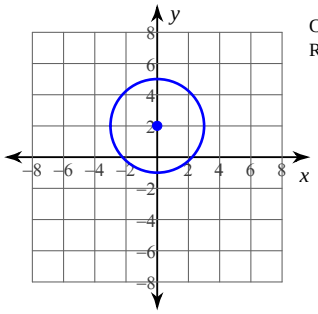
D)



Center: (4, –1)
Radius: $\sqrt{6}$

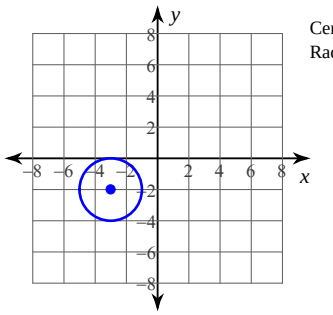
23) $(x-3)^2+(y+2)^2=9$

A)



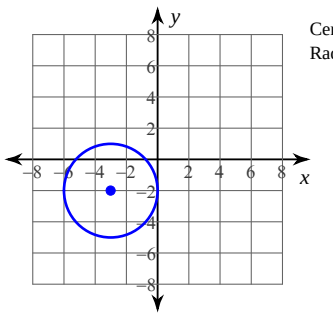
Center: (0, 2)
Radius: 3

B)



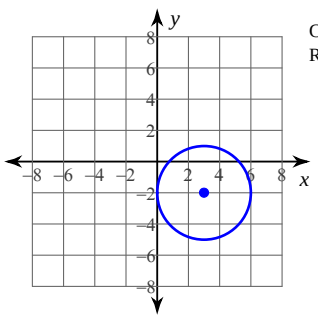
Center: (−3, −2)
Radius: 2

C)



Center: (−3, −2)
Radius: 3

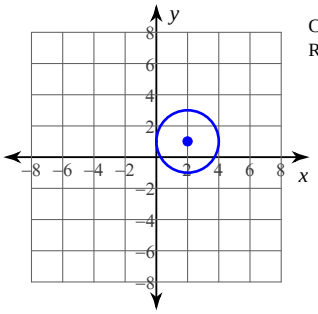
D)



Center: (3, −2)
Radius: 3

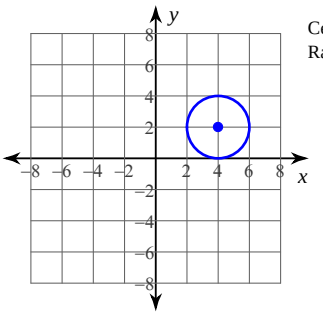
24) $(x-2)^2+(y+4)^2=4$

A)



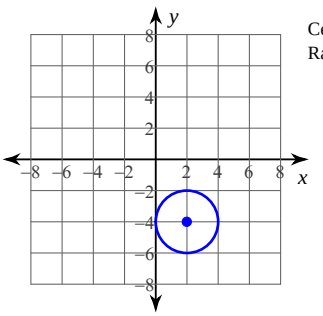
Center: (2, 1)
Radius: 2

B)



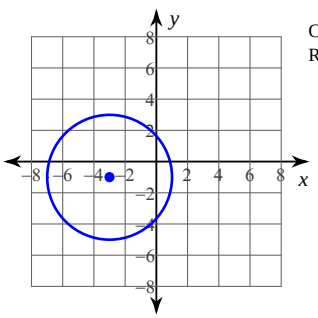
Center: (4, 2)
Radius: 2

C)



Center: (2, −4)
Radius: 2

D)



Center: (−3, −1)
Radius: 4

Answers to Assignment (ID: 2)

1) C
2) D
3) D
4) A
5) B
6) B
7) A
8) C
9) A
10) A
11) B
12) C
13) D
14) C
15) D
16) B
17) C
18) A
19) B
20) C
21) C
22) B
23) D
24) C

Geometry Name_____

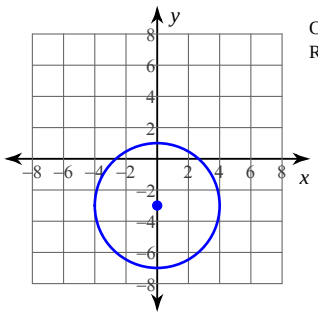
Assignment

Date_____ Period____

Identify the center and radius of each. Then sketch the graph.

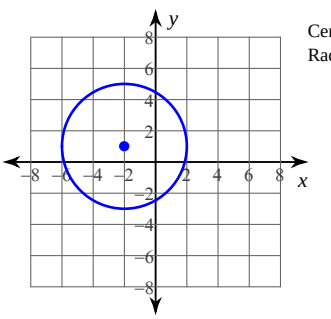
1) $(x-2)^2+(y-1)^2=16$

A)



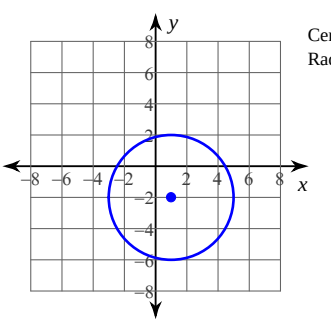
Center: (0, –3)
Radius: 4

B)



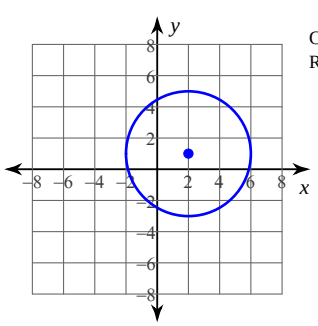
Center: (–2, 1)
Radius: 4

C)



Center: (1, –2)
Radius: 4

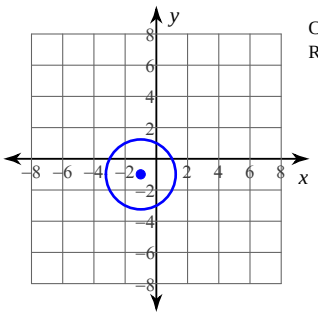
D)



Center: (2, 1)
Radius: 4

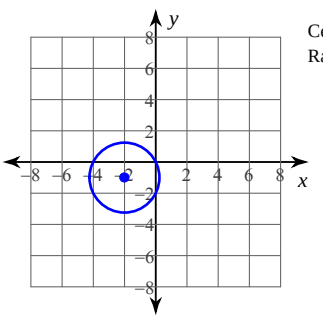
2) $(x-3)^2+(y-3)^2=5$

A)



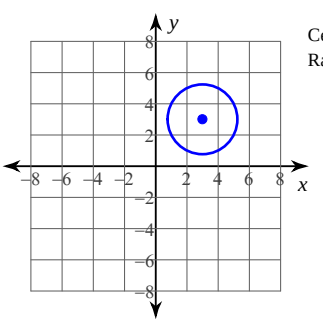
Center: (–1, –1)
Radius: $\sqrt{5}$

B)



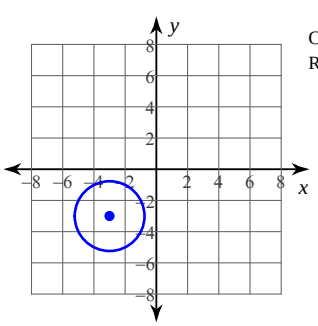
Center: (–2, –1)
Radius: $\sqrt{5}$

C)



Center: (3, 3)
Radius: $\sqrt{5}$

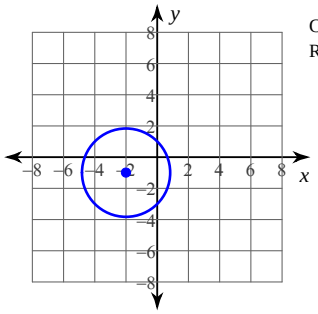
D)



Center: (–3, –3)
Radius: $\sqrt{5}$

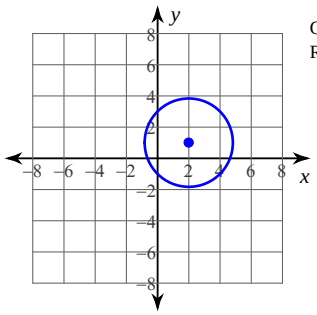
3) $(x-2)^2+(y+1)^2=8$

A)



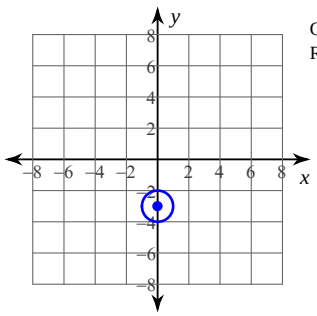
Center: $(-2,-1)$
Radius: $2\sqrt{2}$

B)



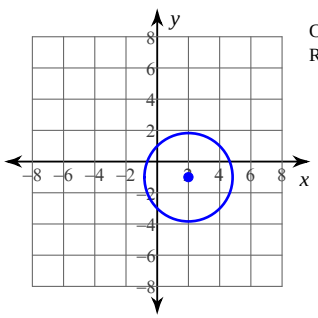
Center: $(2,1)$
Radius: $2\sqrt{2}$

C)



Center: $(0,-3)$
Radius: 1

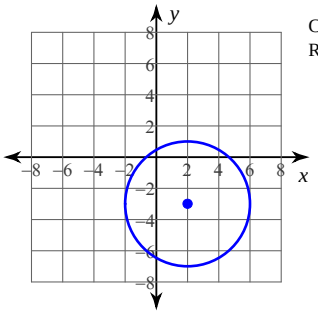
D)



Center: $(2,-1)$
Radius: $2\sqrt{2}$

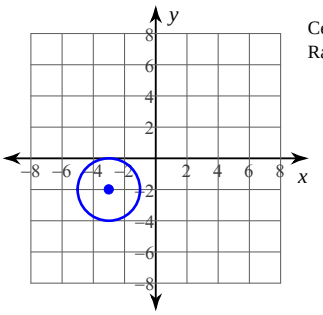
4) $(x-2)^2+(y+3)^2=4$

A)



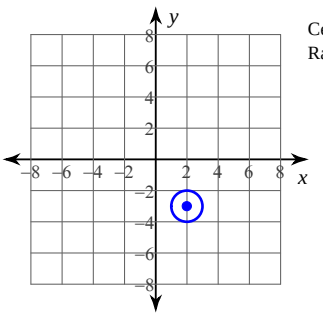
Center: $(2,-3)$
Radius: 4

B)



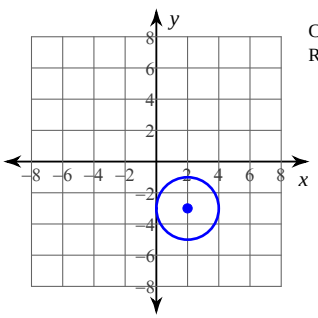
Center: $(-3,-2)$
Radius: 2

C)



Center: $(2,-3)$
Radius: 1

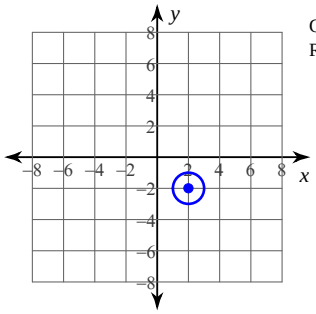
D)



Center: $(2,-3)$
Radius: 2

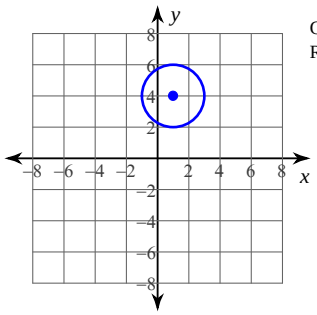
5) $(x-1)^2+(y-4)^2=7$

A)



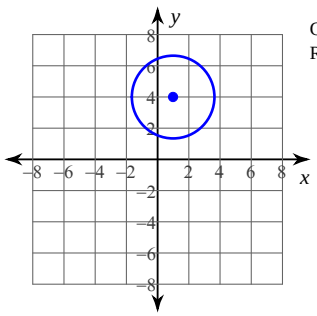
Center: $(2, -2)$
Radius: 1

B)



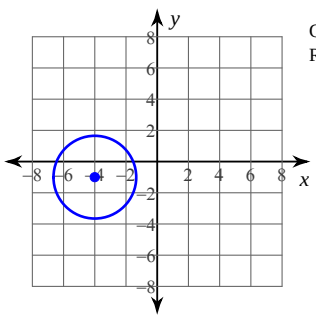
Center: $(1, 4)$
Radius: 2

C)



Center: $(1, 4)$
Radius: $\sqrt{7}$

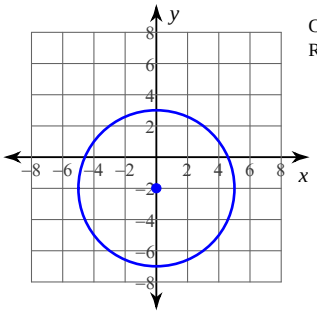
D)



Center: $(-4, -1)$
Radius: $\sqrt{7}$

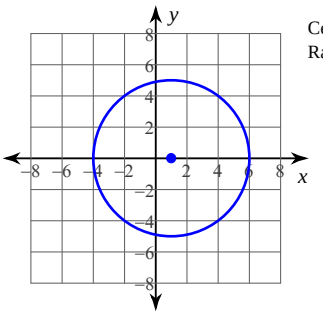
6) $(x-1)^2+y^2=25$

A)



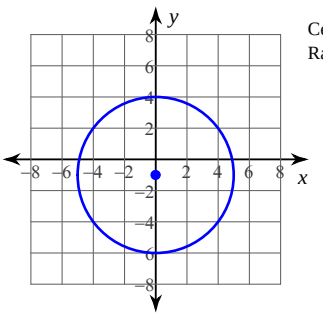
Center: $(0, -2)$
Radius: 5

B)



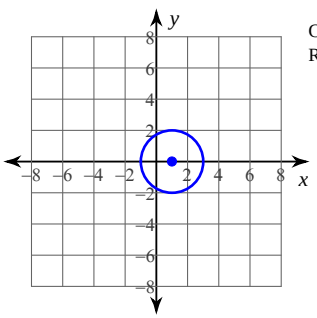
Center: $(1, 0)$
Radius: 5

C)



Center: $(0, -1)$
Radius: 5

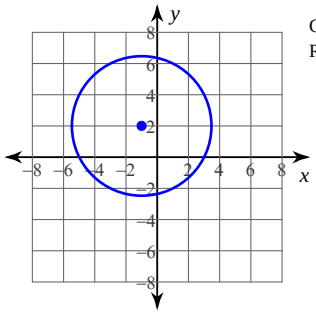
D)



Center: $(1, 0)$
Radius: 2

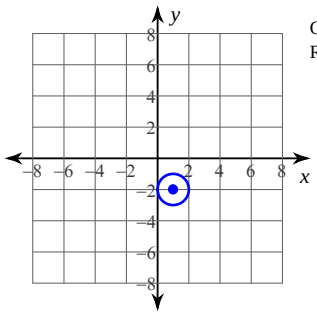
7) $(x-1)^2+(y+2)^2=20$

A)



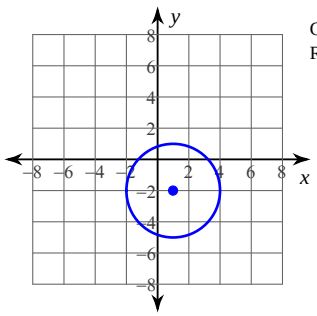
Center: $(-1, 2)$
Radius: $2\sqrt{5}$

B)



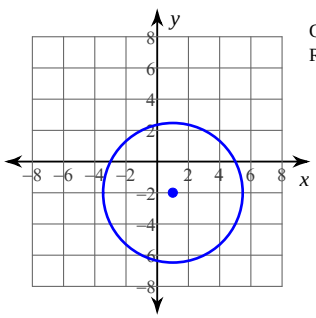
Center: $(1, -2)$
Radius: 1

C)



Center: $(1, -2)$
Radius: 3

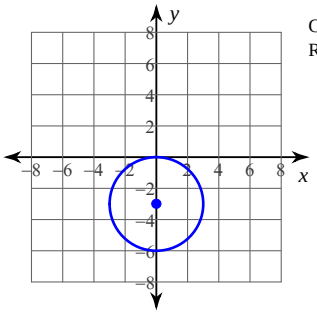
D)



Center: $(1, -2)$
Radius: $2\sqrt{5}$

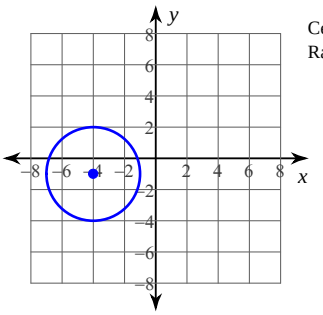
8) $(x-2)^2+(y-2)^2=9$

A)



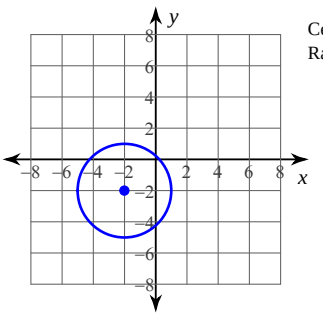
Center: $(0, -3)$
Radius: 3

B)



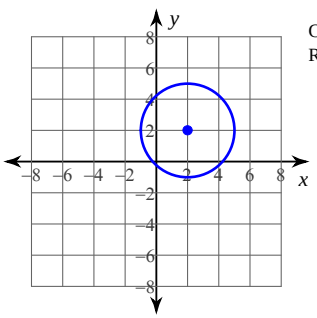
Center: $(-4, -1)$
Radius: 3

C)



Center: $(-2, -2)$
Radius: 3

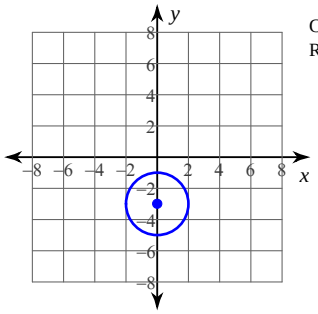
D)



Center: $(2, 2)$
Radius: 3

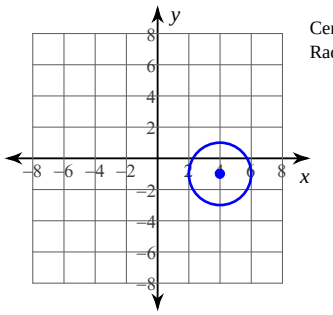
9) $x^2 + (y+3)^2 = 4$

A)



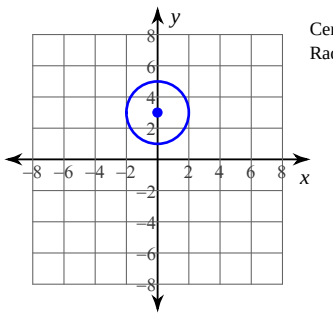
Center: (0, –3)
Radius: 2

B)



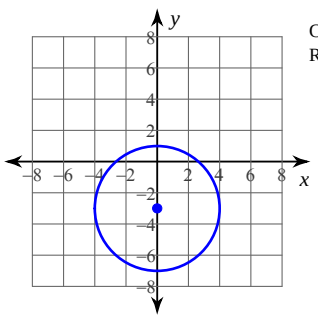
Center: (4, –1)
Radius: 2

C)



Center: (0, 3)
Radius: 2

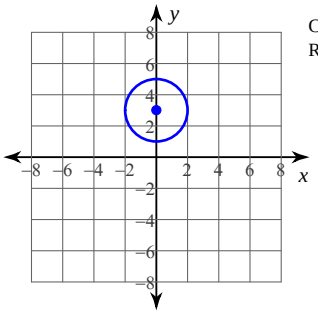
D)



Center: (0, –3)
Radius: 4

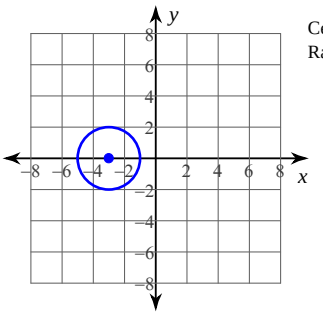
10) $x^2 + (y-3)^2 = 4$

A)



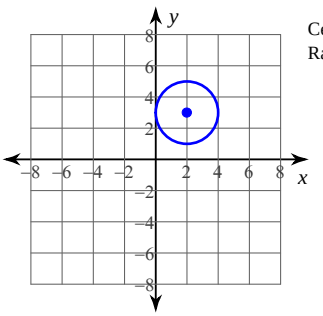
Center: (0, 3)
Radius: 2

B)



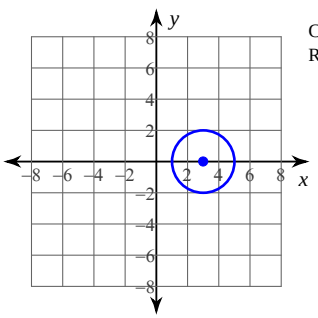
Center: (–3, 0)
Radius: 2

C)



Center: (2, 3)
Radius: 2

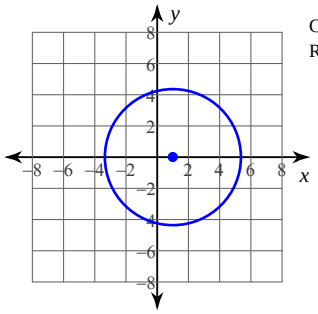
D)



Center: (3, 0)
Radius: 2

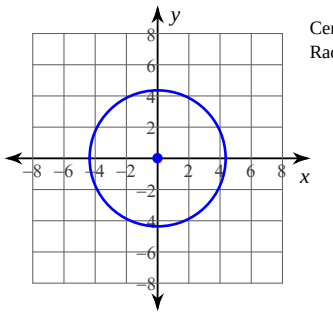
11) $x^2 + y^2 = 19$

A)



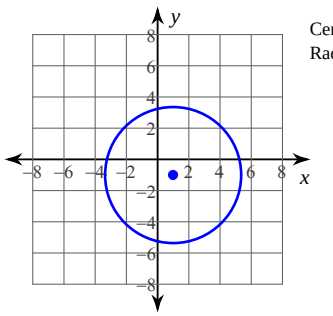
Center: $(1, 0)$
Radius: $\sqrt{19}$

B)



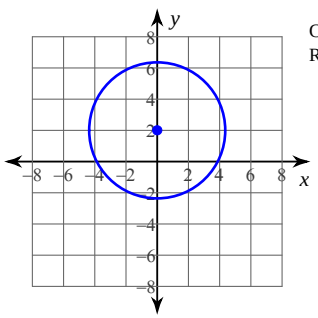
Center: $(0, 0)$
Radius: $\sqrt{19}$

C)



Center: $(1, -1)$
Radius: $\sqrt{19}$

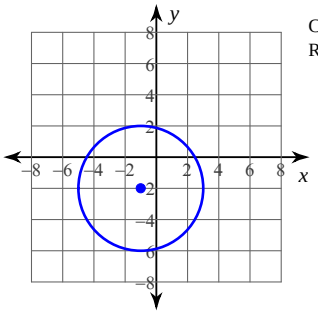
D)



Center: $(0, 2)$
Radius: $\sqrt{19}$

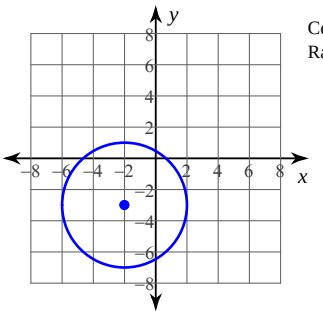
12) $(x + 1)^2 + (y - 1)^2 = 16$

A)



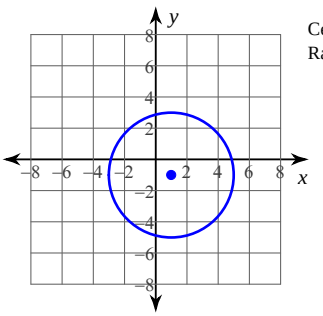
Center: $(-1, -2)$
Radius: 4

B)



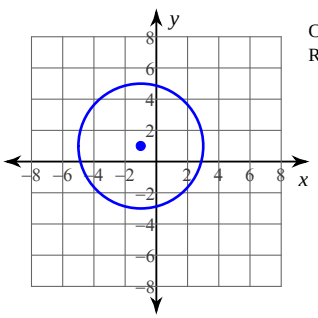
Center: $(-2, -3)$
Radius: 4

C)



Center: $(1, -1)$
Radius: 4

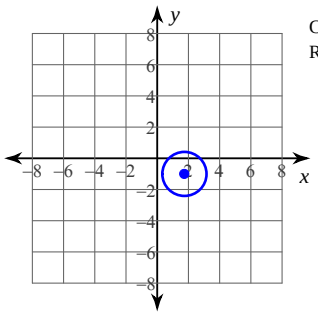
D)



Center: $(-1, 1)$
Radius: 4

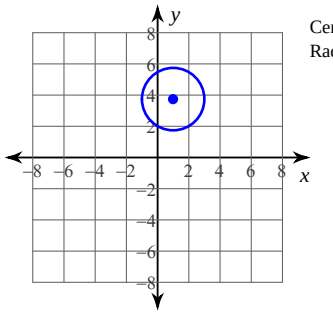
13) $(x-1)^2+\left(y-\sqrt{14}\right)^2=2$

A)



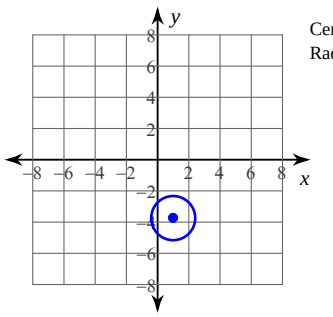
Center: $(\sqrt{14}-2,-1)$
Radius: $\sqrt{2}$

B)



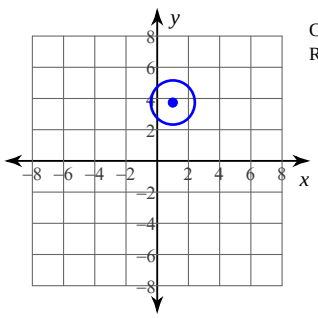
Center: $(1,\sqrt{14})$
Radius: 2

C)



Center: $(1,-\sqrt{14})$
Radius: $\sqrt{2}$

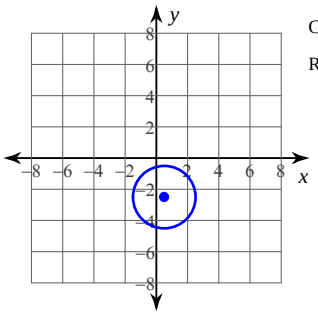
D)



Center: $(1,\sqrt{14})$
Radius: $\sqrt{2}$

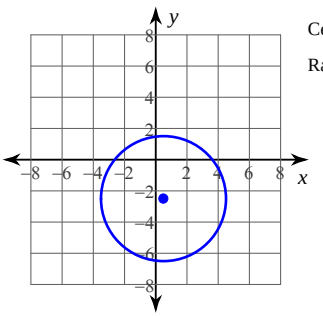
14) $\left(x-\frac{1}{2}\right)^2+\left(y+\frac{5}{2}\right)^2=4$

A)



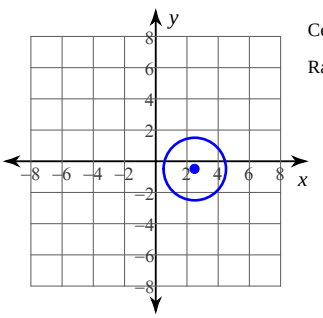
Center: $\left(\frac{1}{2},-\frac{5}{2}\right)$
Radius: 2

B)



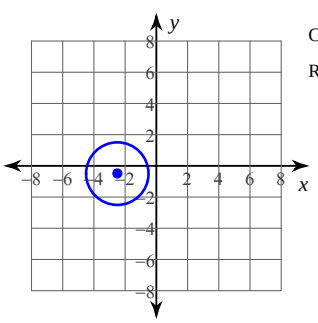
Center: $\left(\frac{1}{2},-\frac{5}{2}\right)$
Radius: 4

C)



Center: $\left(\frac{5}{2},-\frac{1}{2}\right)$
Radius: 2

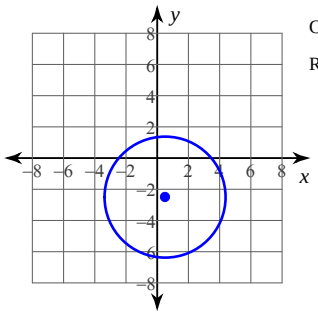
D)



Center: $\left(-\frac{5}{2},-\frac{1}{2}\right)$
Radius: 2

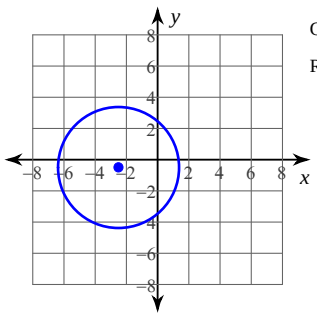
15) $\left(x-\frac{1}{2}\right)^2+\left(y+\frac{5}{2}\right)^2=15$

A)



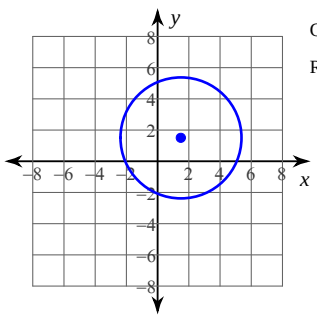
Center: $\left(\frac{1}{2},-\frac{5}{2}\right)$
Radius: $\sqrt{15}$

B)



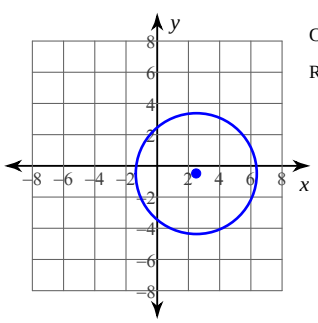
Center: $\left(-\frac{5}{2},-\frac{1}{2}\right)$
Radius: $\sqrt{15}$

C)



Center: $\left(\frac{3}{2},\frac{3}{2}\right)$
Radius: $\sqrt{15}$

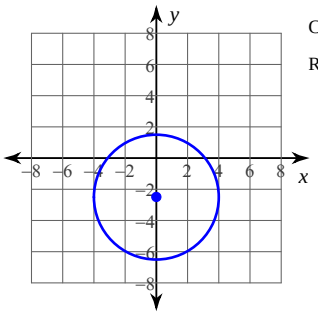
D)



Center: $\left(\frac{5}{2},-\frac{1}{2}\right)$
Radius: $\sqrt{15}$

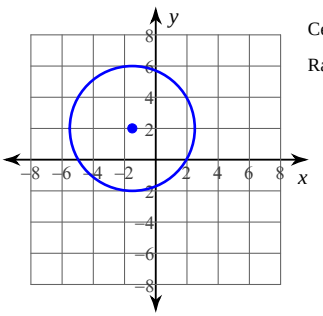
16) $x^2+\left(y+\frac{5}{2}\right)^2=16$

A)



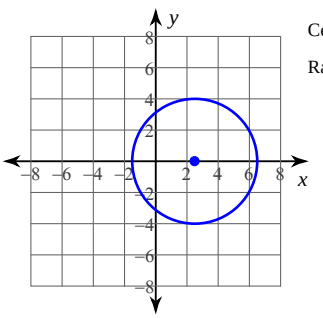
Center: $\left(0,-\frac{5}{2}\right)$
Radius: 4

B)



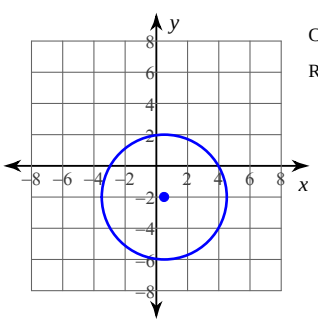
Center: $\left(-\frac{3}{2},2\right)$
Radius: 4

C)



Center: $\left(\frac{5}{2},0\right)$
Radius: 4

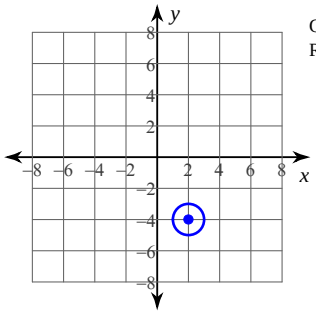
D)



Center: $\left(\frac{1}{2},-2\right)$
Radius: 4

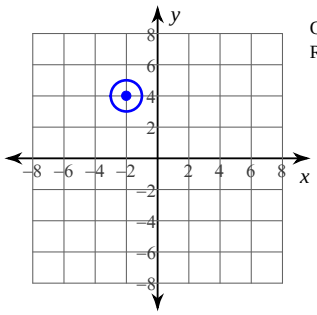
17) $(x+2)^2+(y-4)^2=1$

A)



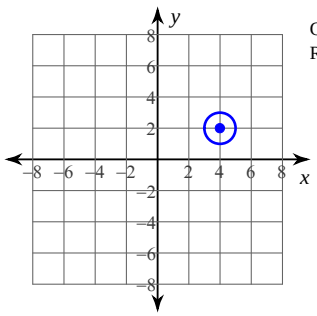
Center: (2, –4)
Radius: 1

B)



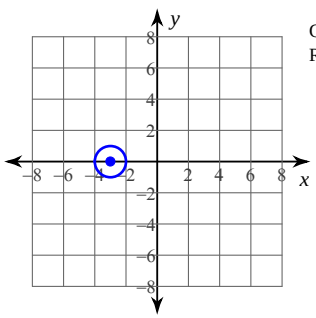
Center: (–2, 4)
Radius: 1

C)



Center: (4, 2)
Radius: 1

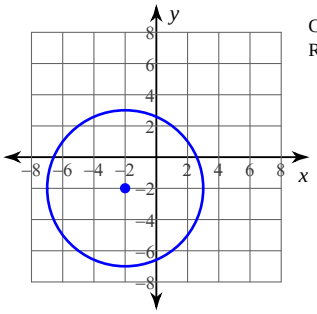
D)



Center: (–3, 0)
Radius: 1

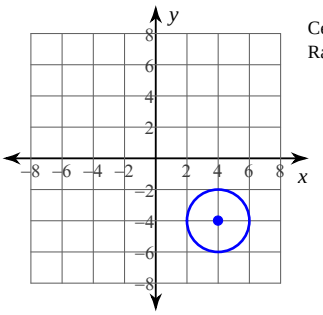
18) $(x+2)^2+(y+2)^2=25$

A)



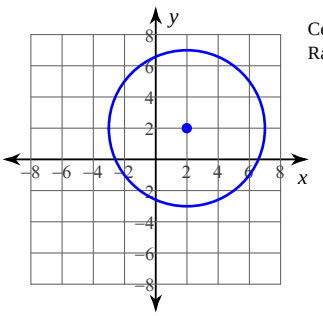
Center: (–2, –2)
Radius: 5

B)



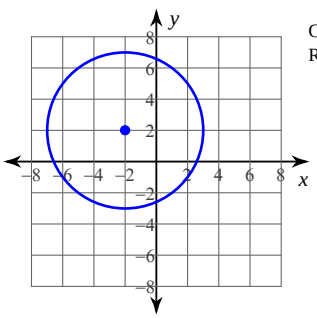
Center: (4, –4)
Radius: 2

C)



Center: (2, 2)
Radius: 5

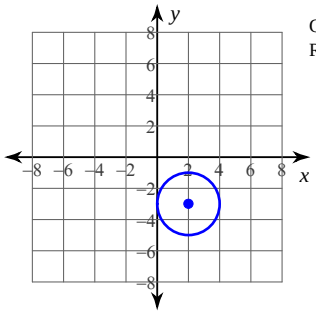
D)



Center: (–2, 2)
Radius: 5

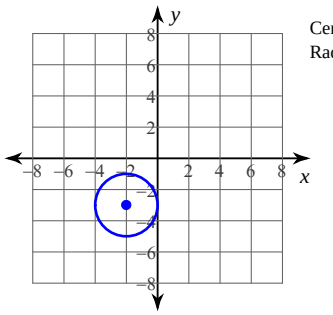
19) $(x+2)^2+(y+3)^2=4$

A)



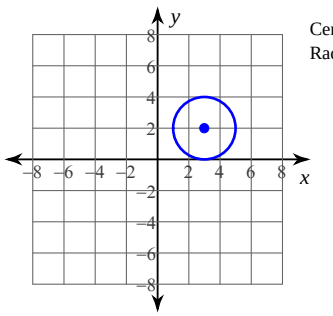
Center: (2, –3)
Radius: 2

B)



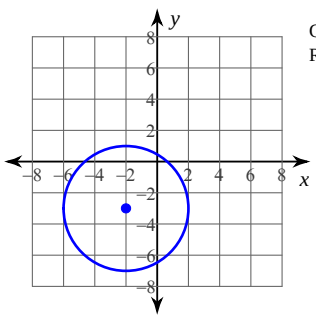
Center: (–2, –3)
Radius: 2

C)



Center: (3, 2)
Radius: 2

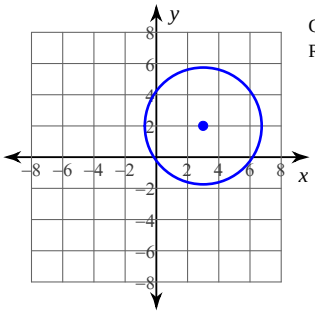
D)



Center: (–2, –3)
Radius: 4

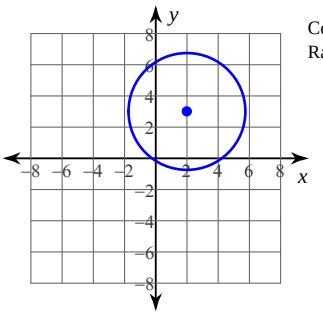
20) $(x+3)^2+(y-2)^2=14$

A)



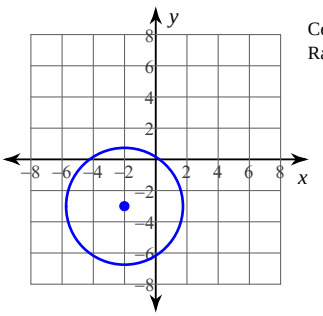
Center: (3, 2)
Radius: $\sqrt{14}$

B)



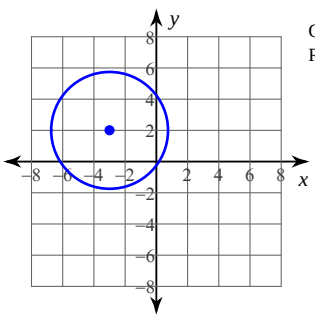
Center: (2, 3)
Radius: $\sqrt{14}$

C)



Center: (–2, –3)
Radius: $\sqrt{14}$

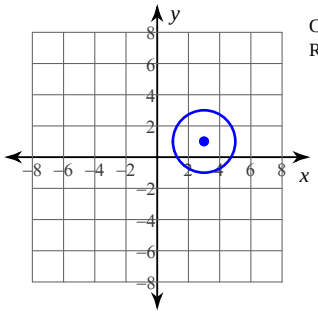
D)



Center: (–3, 2)
Radius: $\sqrt{14}$

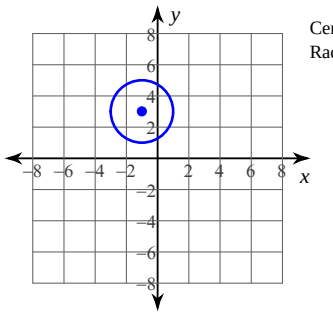
21) $(x+3)^2+(y+1)^2=4$

A)



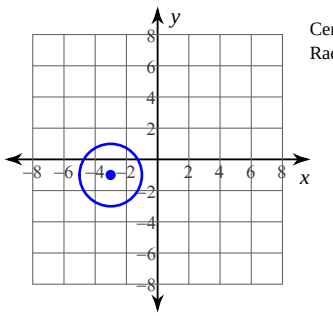
Center: (3, 1)
Radius: 2

B)



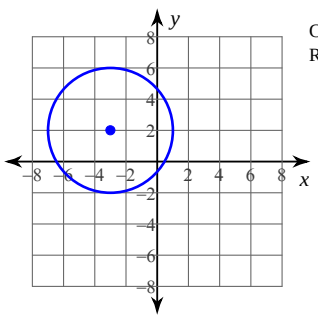
Center: (–1, 3)
Radius: 2

C)



Center: (–3, –1)
Radius: 2

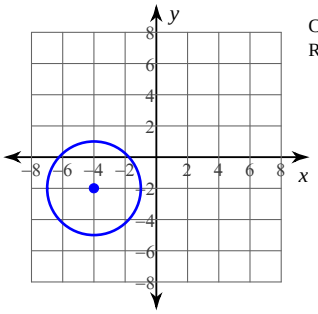
D)



Center: (–3, 2)
Radius: 4

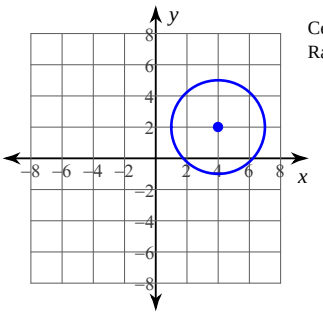
22) $(x+4)^2+(y+2)^2=9$

A)



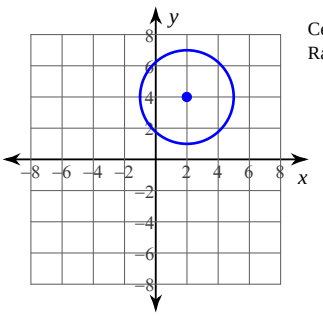
Center: (–4, –2)
Radius: 3

B)



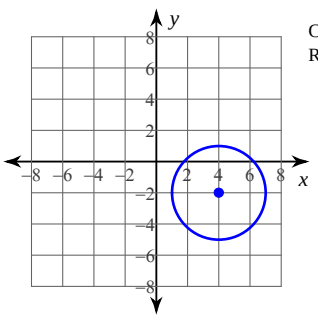
Center: (4, 2)
Radius: 3

C)



Center: (2, 4)
Radius: 3

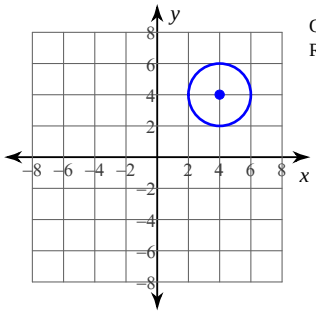
D)



Center: (4, –2)
Radius: 3

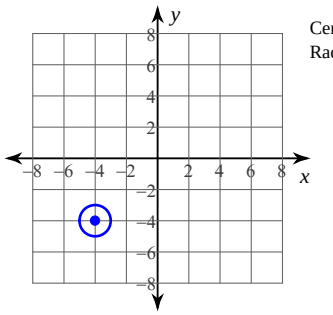
23) $(x+4)^2+(y+4)^2=1$

A)



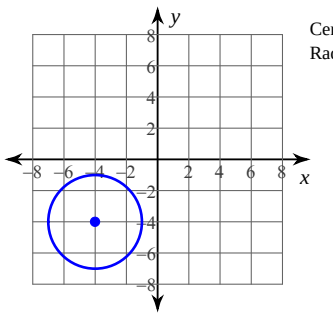
Center: (4, 4)
Radius: 2

B)



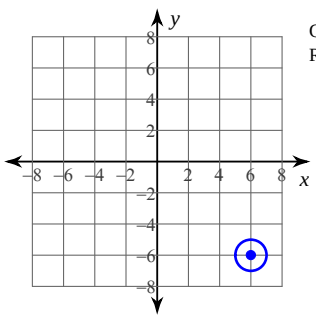
Center: (−4, −4)
Radius: 1

C)



Center: (−4, −4)
Radius: 3

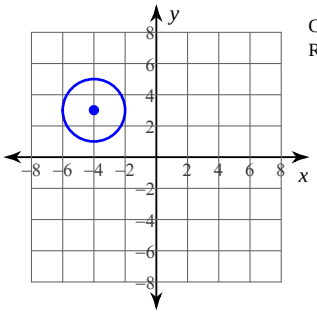
D)



Center: (6, −6)
Radius: 1

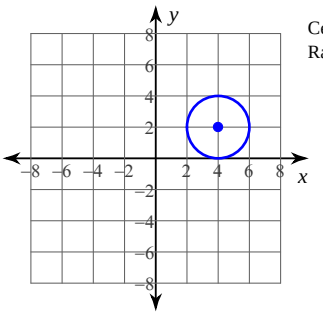
24) $(x+4)^2+(y-3)^2=4$

A)



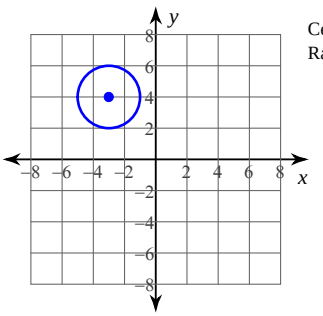
Center: (−4, 3)
Radius: 2

B)



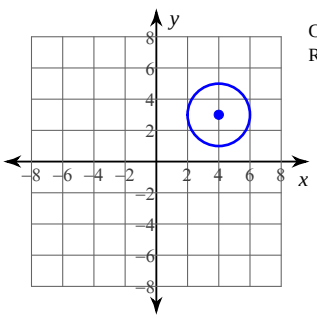
Center: (4, 2)
Radius: 2

C)



Center: (−3, 4)
Radius: 2

D)



Center: (4, 3)
Radius: 2

Answers to Assignment (ID: 3)

1) D
2) C
3) D
4) D
5) C
6) B
7) D
8) D
9) A
10) A
11) B
12) D
13) D
14) A
15) A
16) A
17) B
18) A
19) B
20) D
21) C
22) A
23) B
24) A

Geometry Name_____

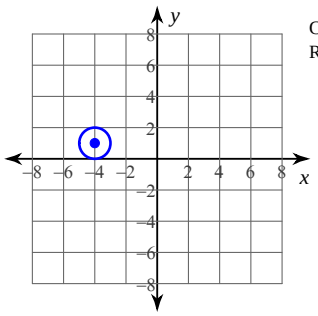
Assignment

Date_____ Period____

Identify the center and radius of each. Then sketch the graph.

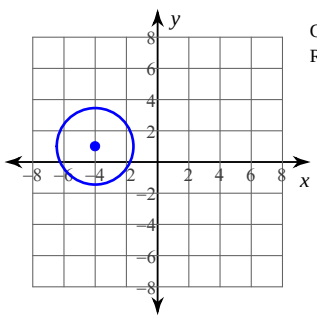
1) $(x+4)^2+(y-1)^2=6$

A)



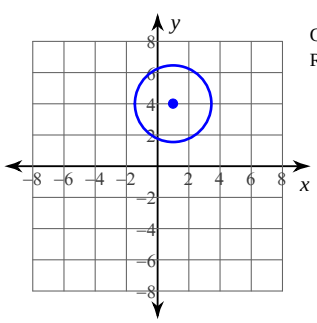
Center: (–4, 1)
Radius: 1

B)



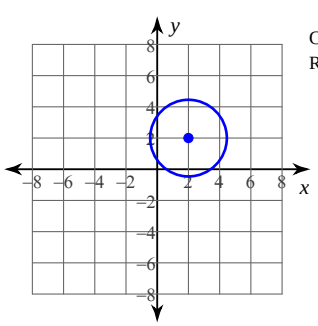
Center: (–4, 1)
Radius: $\sqrt{6}$

C)



Center: (1, 4)
Radius: $\sqrt{6}$

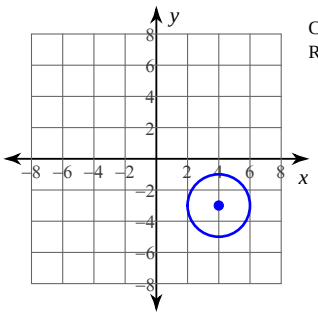
D)



Center: (2, 2)
Radius: $\sqrt{6}$

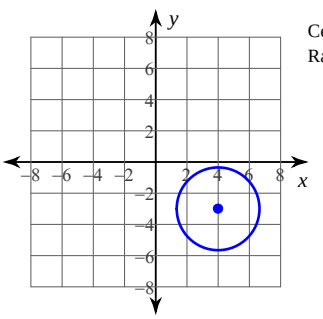
2) $(x-4)^2+(y+3)^2=7$

A)



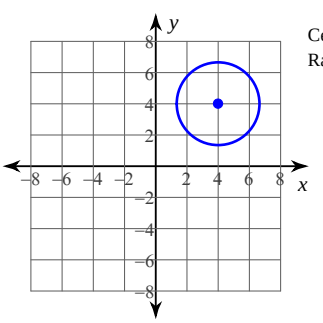
Center: (4, –3)
Radius: 2

B)



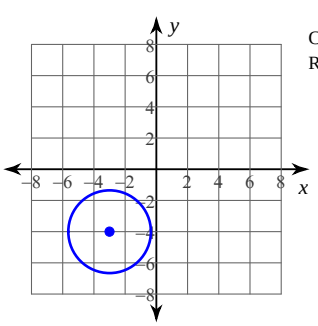
Center: (4, –3)
Radius: $\sqrt{7}$

C)



Center: (4, 4)
Radius: $\sqrt{7}$

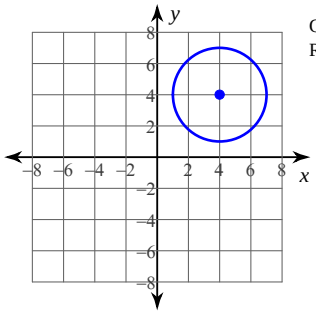
D)



Center: (–3, –4)
Radius: $\sqrt{7}$

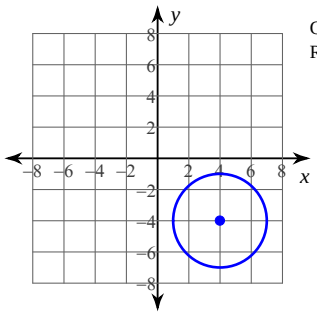
3) $(x-4)^2+(y-4)^2=9$

A)



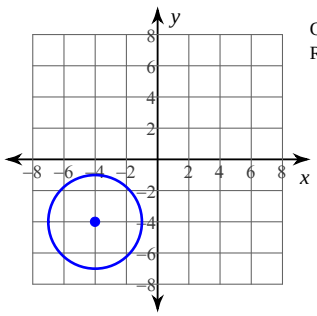
Center: (4, 4)
Radius: 3

B)



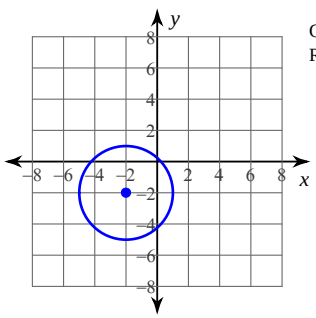
Center: (4, –4)
Radius: 3

C)



Center: (–4, –4)
Radius: 3

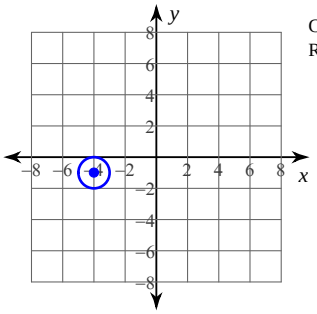
D)



Center: (–2, –2)
Radius: 3

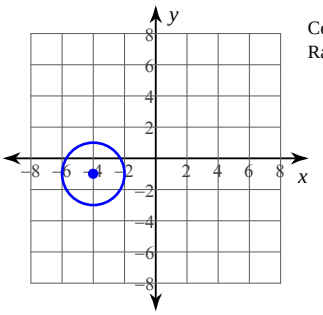
4) $(x+4)^2+(y+1)^2=1$

A)



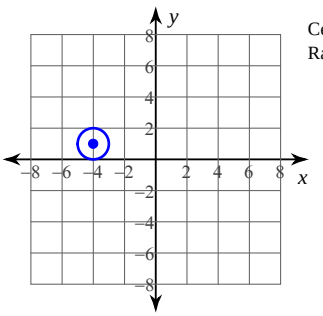
Center: (–4, –1)
Radius: 1

B)



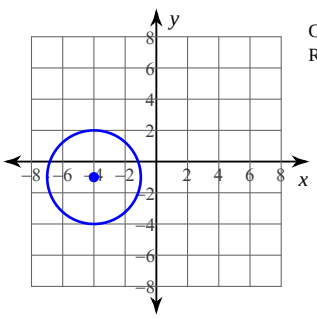
Center: (–4, –1)
Radius: 2

C)



Center: (–4, 1)
Radius: 1

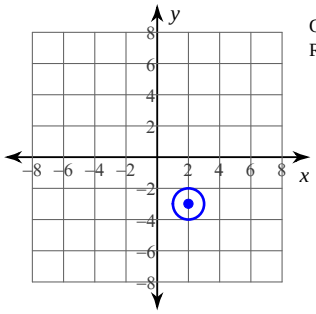
D)



Center: (–4, –1)
Radius: 3

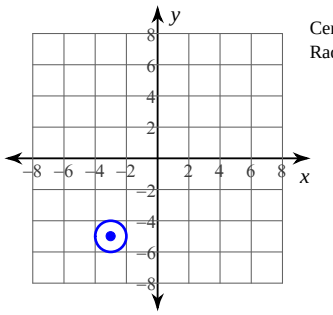
5) $(x-3)^2+(y-2)^2=1$

A)



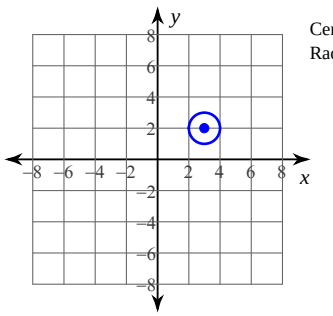
Center: (2, –3)
Radius: 1

B)



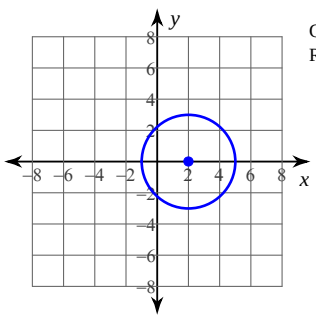
Center: (–3, –5)
Radius: 1

C)



Center: (3, 2)
Radius: 1

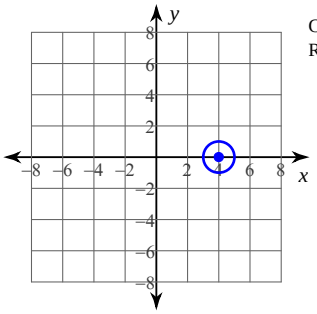
D)



Center: (2, 0)
Radius: 3

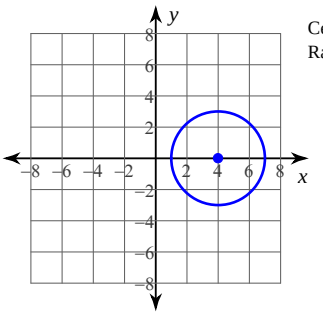
6) $(x-4)^2+y^2=1$

A)



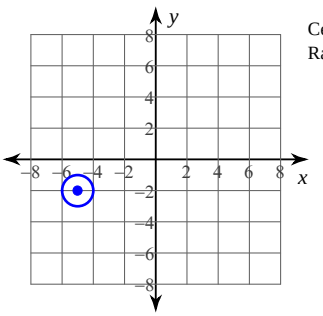
Center: (4, 0)
Radius: 1

B)



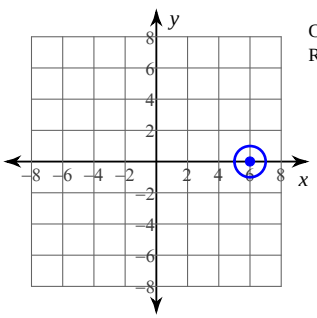
Center: (4, 0)
Radius: 3

C)



Center: (–5, –2)
Radius: 1

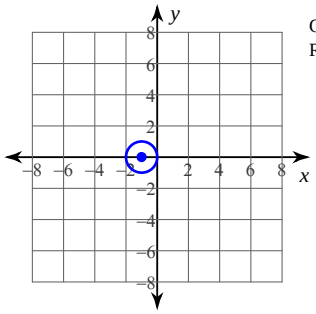
D)



Center: (6, 0)
Radius: 1

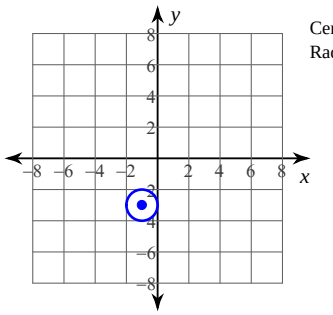
7) $(x-3)^2+(y+1)^2=1$

A)



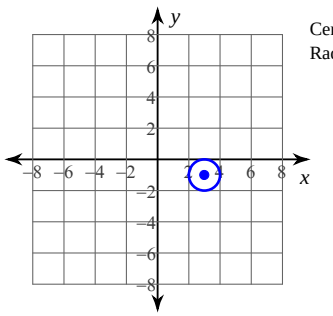
Center: (–1, 0)
Radius: 1

B)



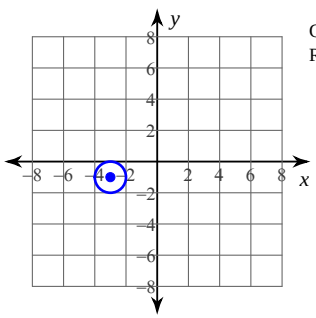
Center: (–1, –3)
Radius: 1

C)



Center: (3, –1)
Radius: 1

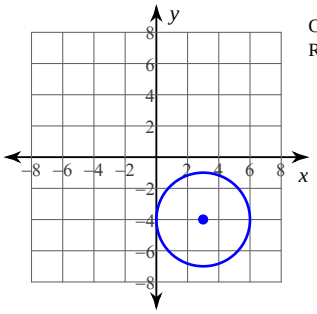
D)



Center: (–3, –1)
Radius: 1

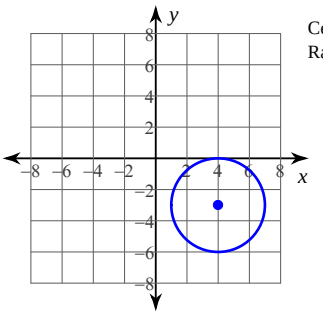
8) $(x-3)^2+(y+4)^2=3$

A)



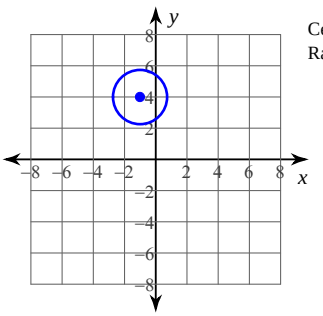
Center: (3, –4)
Radius: 3

B)



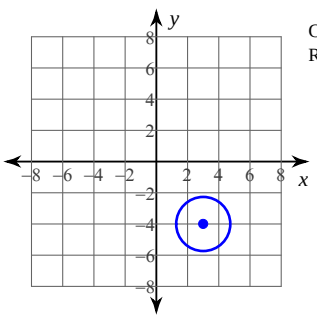
Center: (4, –3)
Radius: 3

C)



Center: (–1, 4)
Radius: $\sqrt{3}$

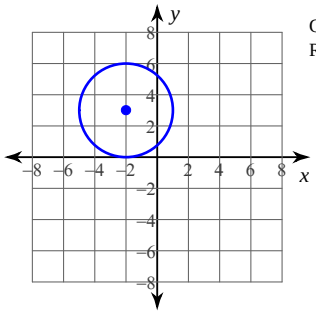
D)



Center: (3, –4)
Radius: $\sqrt{3}$

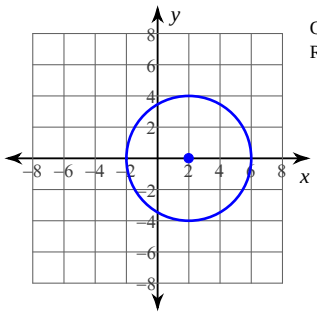
9) $(x-2)^2+(y-3)^2=16$

A)



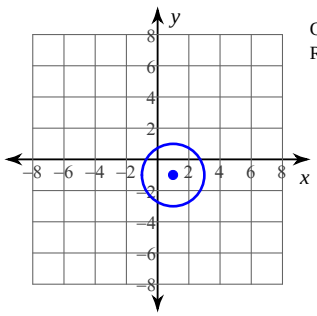
Center: (–2, 3)
Radius: 3

B)



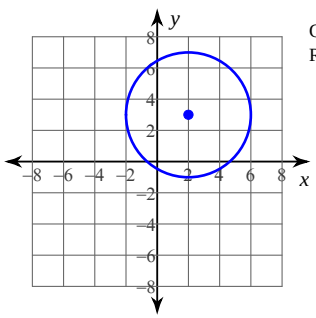
Center: (2, 0)
Radius: 4

C)



Center: (1, –1)
Radius: 2

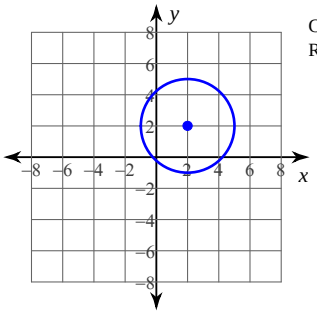
D)



Center: (2, 3)
Radius: 4

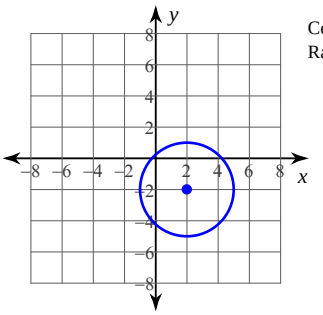
10) $(x-2)^2+(y-2)^2=9$

A)



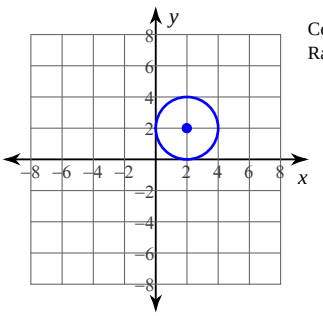
Center: (2, 2)
Radius: 3

B)



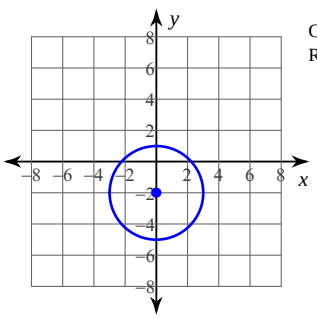
Center: (2, –2)
Radius: 3

C)



Center: (2, 2)
Radius: 2

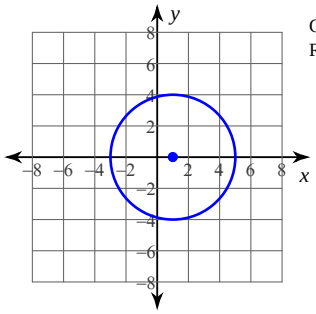
D)



Center: (0, –2)
Radius: 3

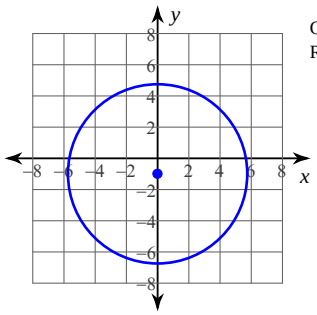
11) $(x-1)^2 + y^2 = 33$

A)



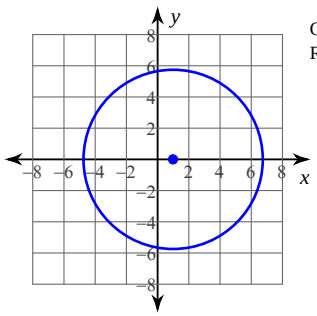
Center: $(1, 0)$
Radius: 4

B)



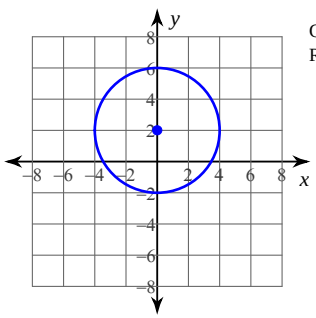
Center: $(0, -1)$
Radius: $\sqrt{33}$

C)



Center: $(1, 0)$
Radius: $\sqrt{33}$

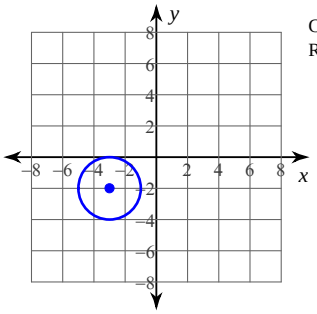
D)



Center: $(0, 2)$
Radius: 4

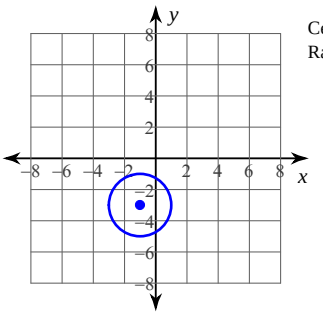
12) $(x-2)^2 + (y+3)^2 = 4$

A)



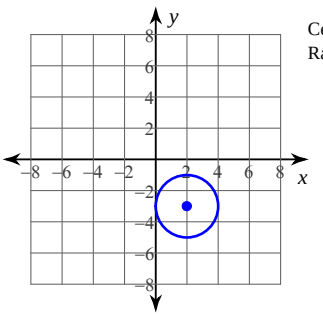
Center: $(-3, -2)$
Radius: 2

B)



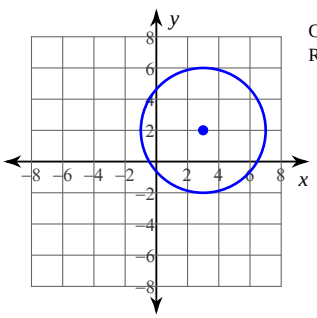
Center: $(-1, -3)$
Radius: 2

C)



Center: $(2, -3)$
Radius: 2

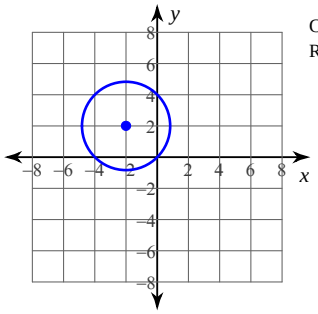
D)



Center: $(3, 2)$
Radius: 4

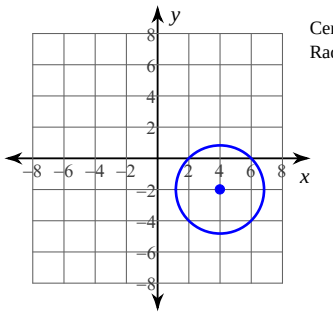
13) $(x-2)^2+(y-4)^2=8$

A)



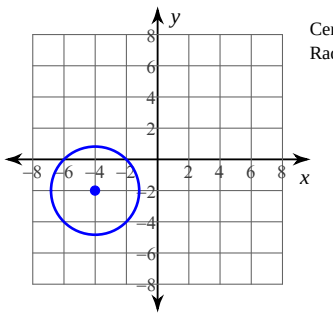
Center: $(-2, 2)$
Radius: $2\sqrt{2}$

B)



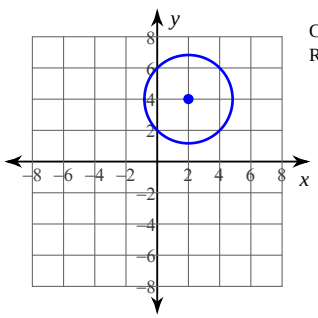
Center: $(4, -2)$
Radius: $2\sqrt{2}$

C)



Center: $(-4, -2)$
Radius: $2\sqrt{2}$

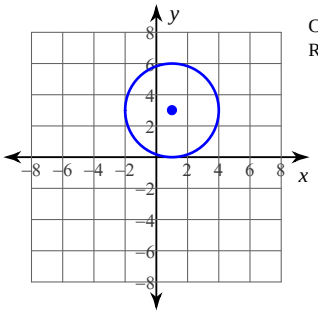
D)



Center: $(2, 4)$
Radius: $2\sqrt{2}$

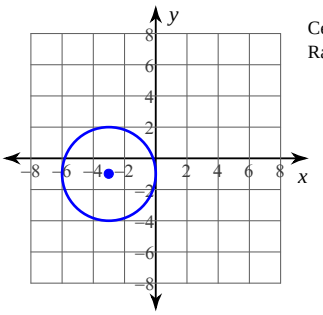
14) $(x-1)^2+(y-3)^2=9$

A)



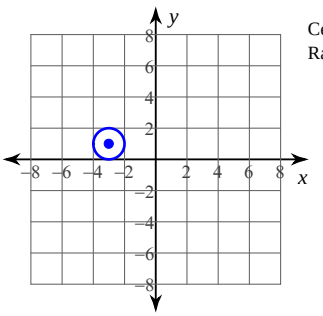
Center: $(1, 3)$
Radius: 3

B)



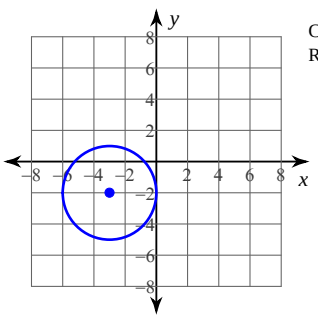
Center: $(-3, -1)$
Radius: 3

C)



Center: $(-3, 1)$
Radius: 1

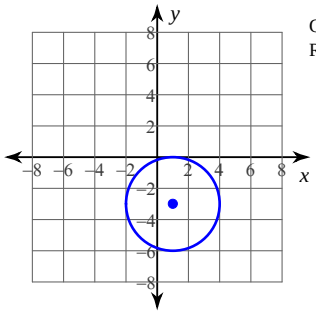
D)



Center: $(-3, -2)$
Radius: 3

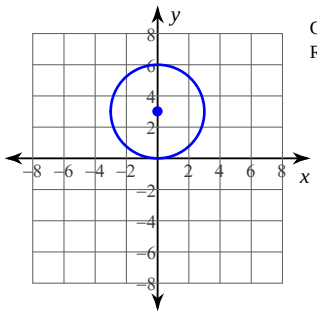
15) $(x-1)^2+(y+3)^2=9$

A)



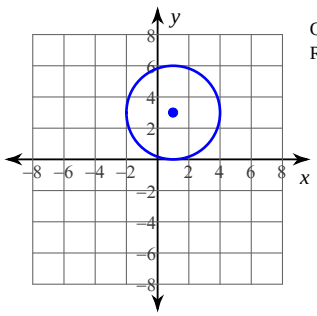
Center: $(1, -3)$
Radius: 3

B)



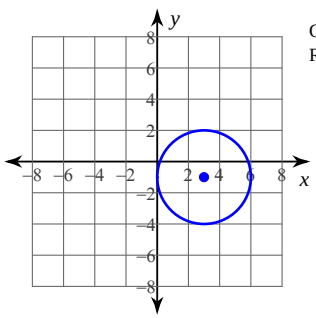
Center: $(0, 3)$
Radius: 3

C)



Center: $(1, 3)$
Radius: 3

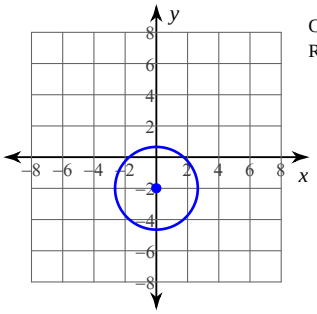
D)



Center: $(3, -1)$
Radius: 3

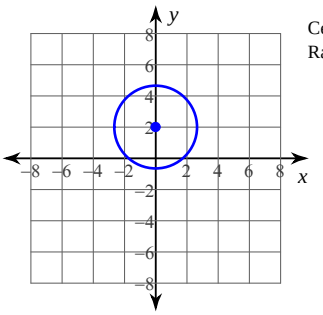
16) $x^2+(y+2)^2=7$

A)



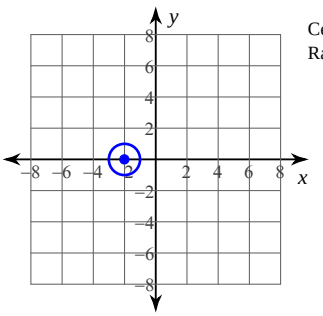
Center: $(0, -2)$
Radius: $\sqrt{7}$

B)



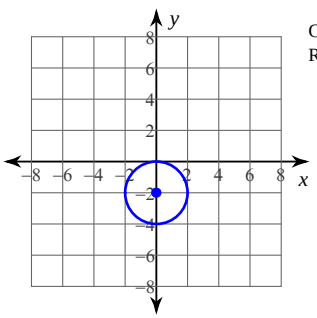
Center: $(0, 2)$
Radius: $\sqrt{7}$

C)



Center: $(-2, 0)$
Radius: 1

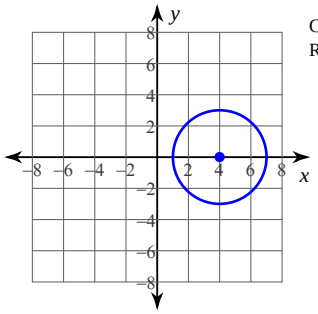
D)



Center: $(0, -2)$
Radius: 2

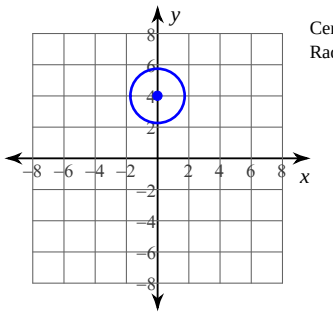
17) $x^2 + (y-4)^2 = 3$

A)



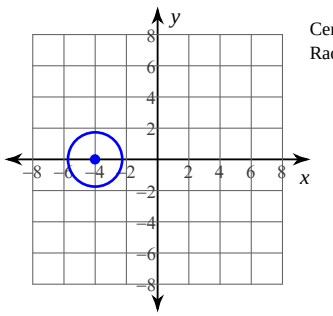
Center: (4, 0)
Radius: 3

B)



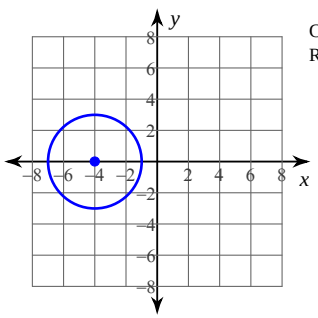
Center: (0, 4)
Radius: $\sqrt{3}$

C)



Center: (−4, 0)
Radius: $\sqrt{3}$

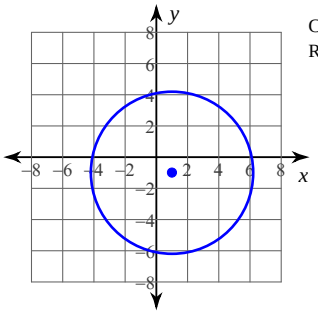
D)



Center: (−4, 0)
Radius: 3

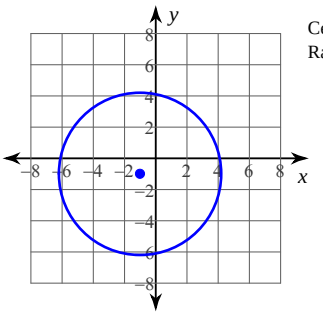
18) $(x-1)^2 + (y-1)^2 = 27$

A)



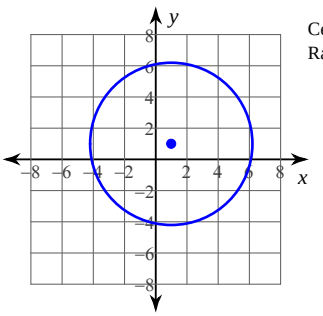
Center: (1, −1)
Radius: $3\sqrt{3}$

B)



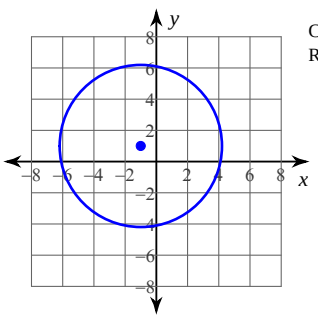
Center: (−1, −1)
Radius: $3\sqrt{3}$

C)



Center: (1, 1)
Radius: $3\sqrt{3}$

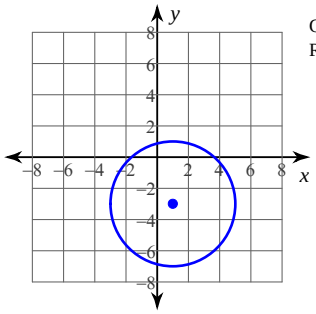
D)



Center: (−1, 1)
Radius: $3\sqrt{3}$

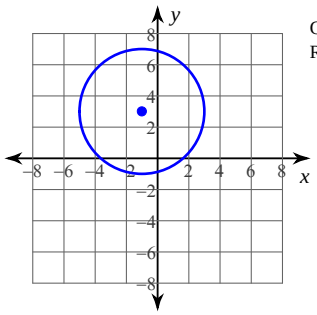
19) $(x-1)^2+(y+3)^2=16$

A)



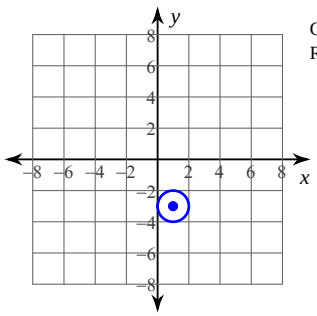
Center: (1, –3)
Radius: 4

B)



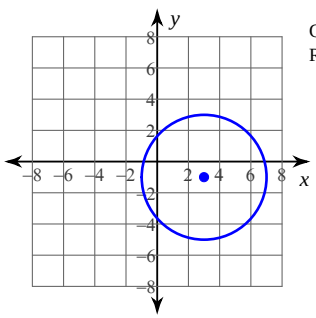
Center: (–1, 3)
Radius: 4

C)



Center: (1, –3)
Radius: 1

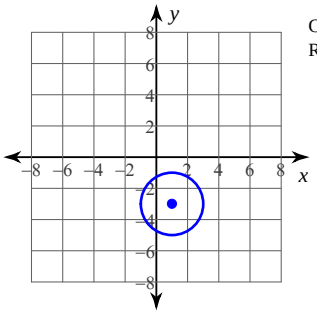
D)



Center: (3, –1)
Radius: 4

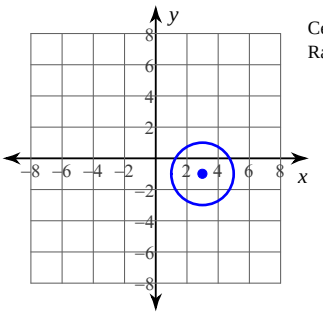
20) $(x-1)^2+(y+3)^2=4$

A)



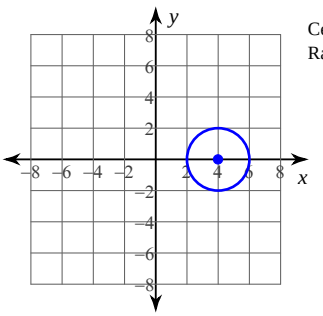
Center: (1, –3)
Radius: 2

B)



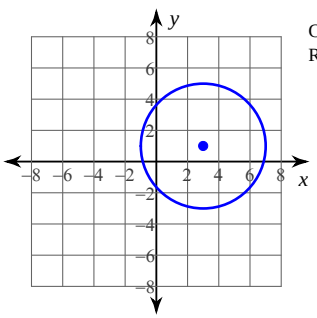
Center: (3, –1)
Radius: 2

C)



Center: (4, 0)
Radius: 2

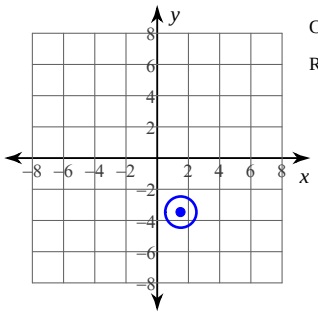
D)



Center: (3, 1)
Radius: 4

21) $\left(x-\frac{1}{2}\right)^2+\left(y-2\sqrt{3}\right)^2=1$

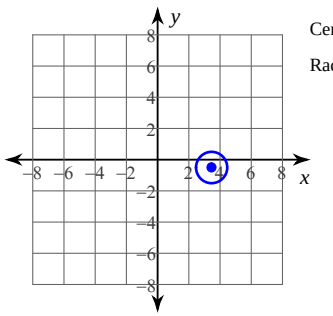
A)



Center: $\left(\frac{3}{2}, -2\sqrt{3}\right)$

Radius: 1

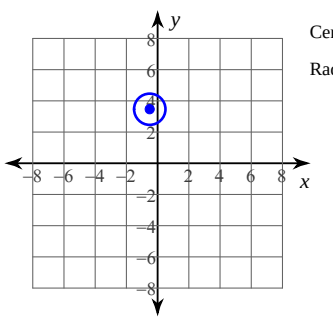
B)



Center: $\left(2\sqrt{3}, -\frac{1}{2}\right)$

Radius: 1

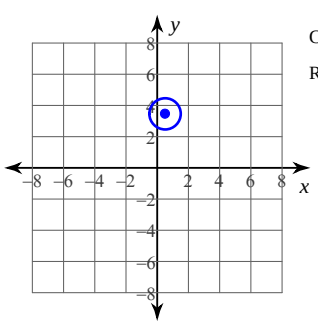
C)



Center: $\left(-\frac{1}{2}, 2\sqrt{3}\right)$

Radius: 1

D)

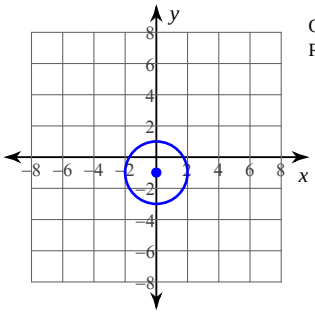


Center: $\left(\frac{1}{2}, 2\sqrt{3}\right)$

Radius: 1

22) $x^2+(y-1)^2=4$

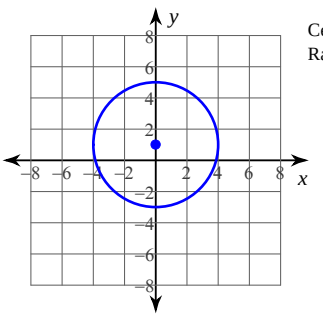
A)



Center: $(0, -1)$

Radius: 2

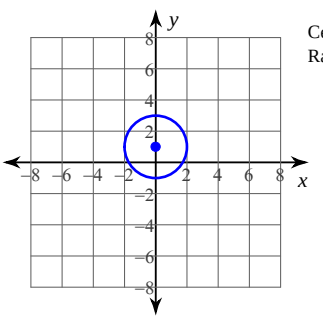
B)



Center: $(0, 1)$

Radius: 4

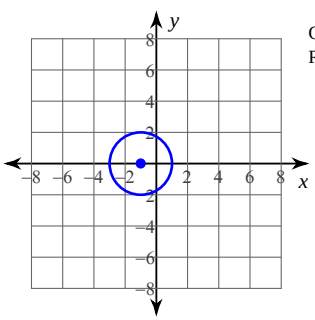
C)



Center: $(0, 1)$

Radius: 2

D)

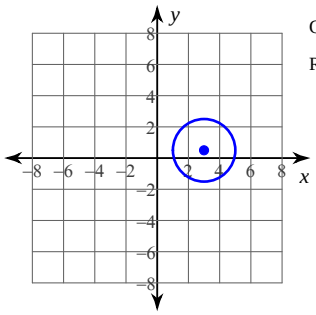


Center: $(-1, 0)$

Radius: 2

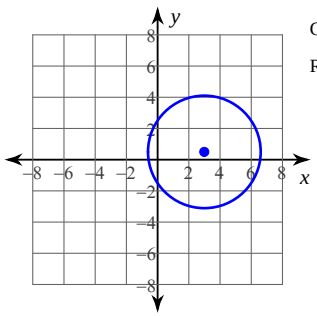
23) $(x-3)^2+\left(y-\frac{1}{2}\right)^2=13$

A)



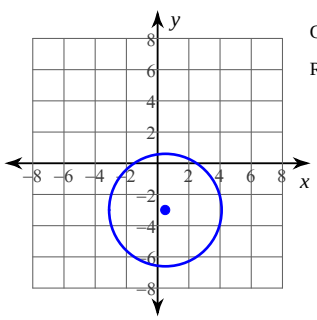
Center: $\left(3,\frac{1}{2}\right)$
Radius: 2

B)



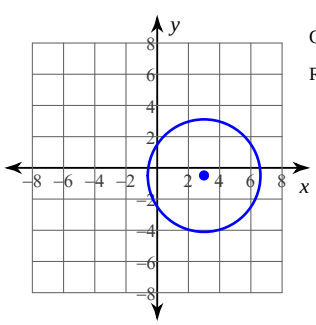
Center: $\left(3,\frac{1}{2}\right)$
Radius: $\sqrt{13}$

C)



Center: $\left(\frac{1}{2},-3\right)$
Radius: $\sqrt{13}$

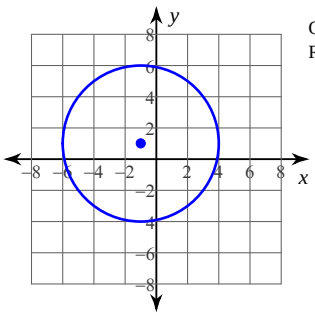
D)



Center: $\left(3,-\frac{1}{2}\right)$
Radius: $\sqrt{13}$

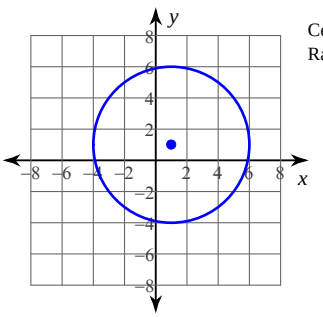
24) $(x+1)^2+(y-1)^2=25$

A)



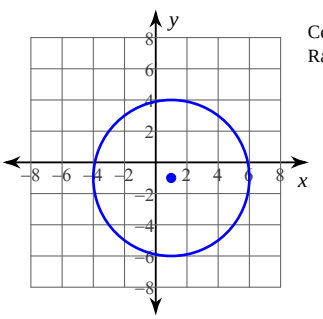
Center: $(-1, 1)$
Radius: 5

B)



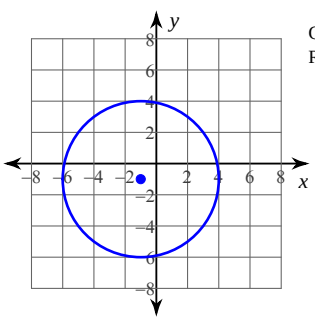
Center: $(1, 1)$
Radius: 5

C)



Center: $(1, -1)$
Radius: 5

D)



Center: $(-1, -1)$
Radius: 5

Answers to Assignment (ID: 4)

1) B
2) B
3) A
4) A
5) C
6) A
7) C
8) D
9) D
10) A
11) C
12) C
13) D
14) A
15) A
16) A
17) B
18) C
19) A
20) A
21) D
22) C
23) B
24) A

Geometry Name_____

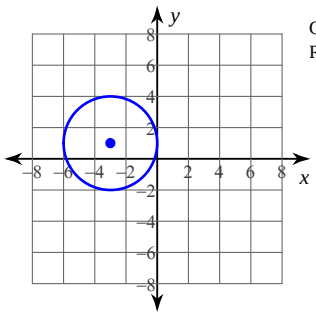
Assignment

Date_____ Period____

Identify the center and radius of each. Then sketch the graph.

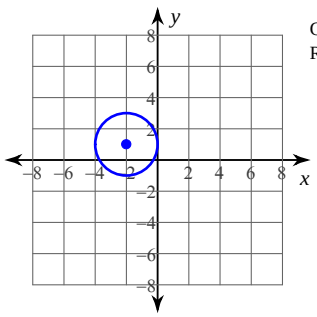
1) $(x+2)^2+(y+1)^2=9$

A)



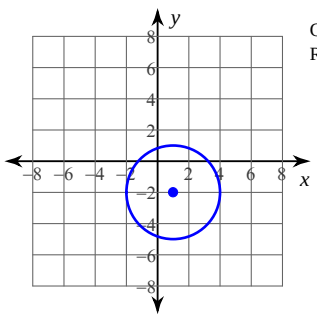
Center: (−3, 1)
Radius: 3

B)



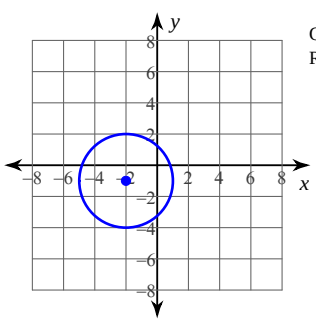
Center: (−2, 1)
Radius: 2

C)



Center: (1, −2)
Radius: 3

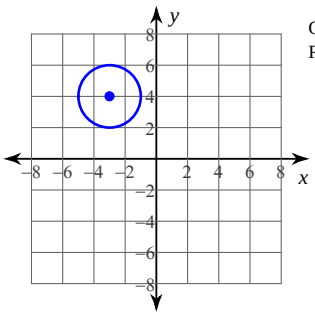
D)



Center: (−2, −1)
Radius: 3

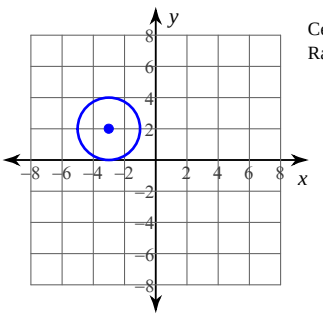
2) $(x+3)^2+(y-4)^2=4$

A)



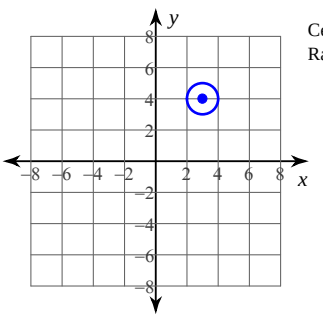
Center: (−3, 4)
Radius: 2

B)



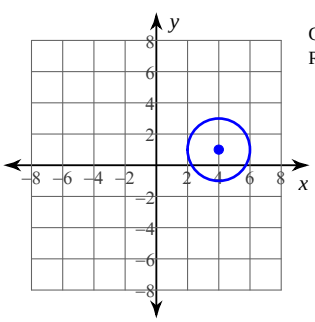
Center: (−3, 2)
Radius: 2

C)



Center: (3, 4)
Radius: 1

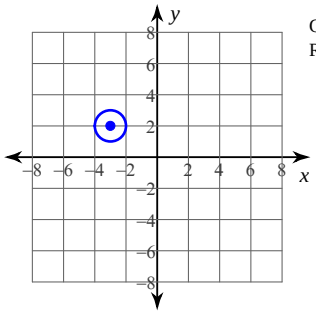
D)



Center: (4, 1)
Radius: 2

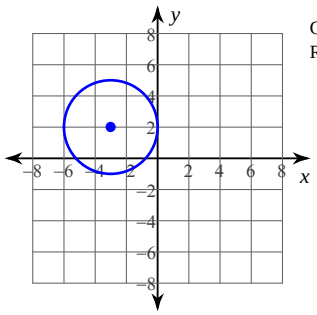
3) $(x+3)^2+(y-2)^2=1$

A)



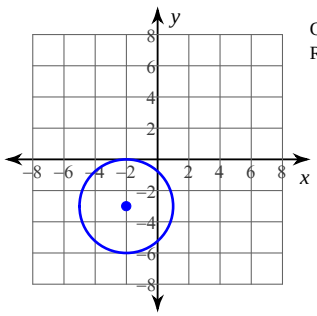
Center: (–3, 2)
Radius: 1

B)



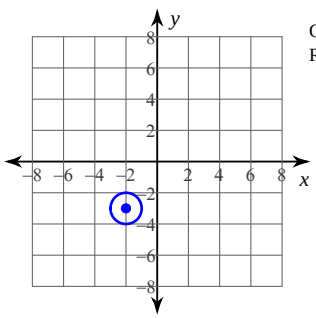
Center: (–3, 2)
Radius: 3

C)



Center: (–2, –3)
Radius: 3

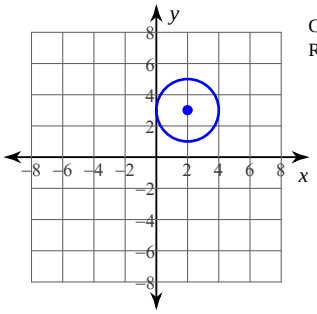
D)



Center: (–2, –3)
Radius: 1

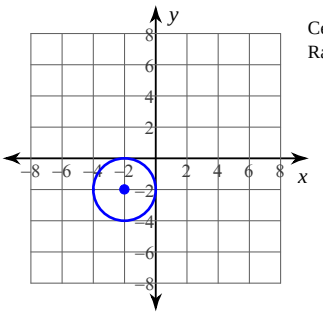
4) $(x+2)^2+(y+2)^2=4$

A)



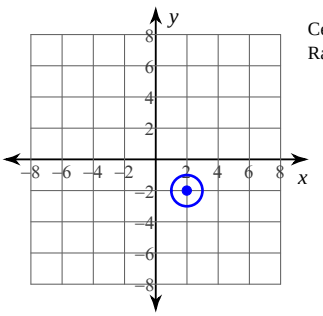
Center: (2, 3)
Radius: 2

B)



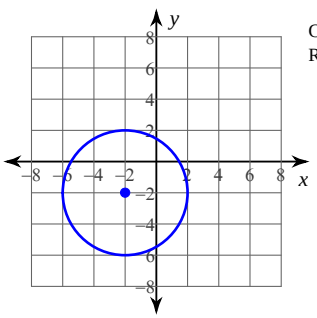
Center: (–2, –2)
Radius: 2

C)



Center: (2, –2)
Radius: 1

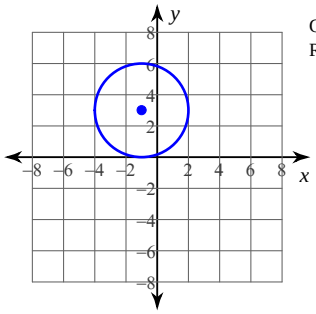
D)



Center: (–2, –2)
Radius: 4

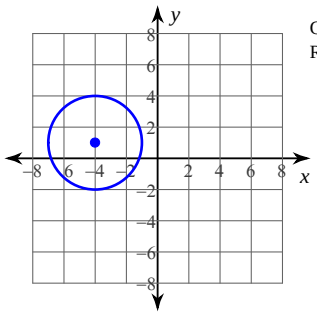
5) $(x+3)^2+(y-1)^2=9$

A)



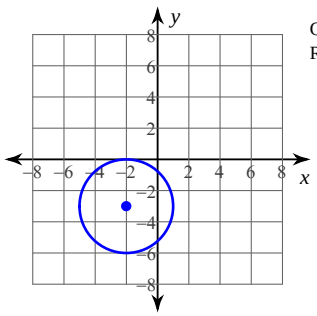
Center: (–1, 3)
Radius: 3

B)



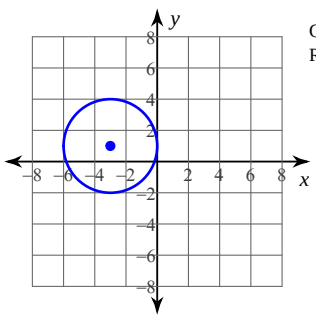
Center: (–4, 1)
Radius: 3

C)



Center: (–2, –3)
Radius: 3

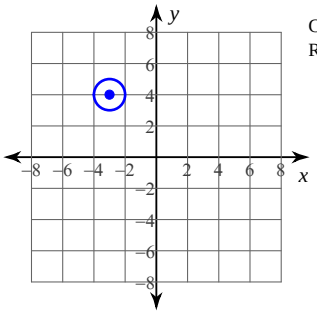
D)



Center: (–3, 1)
Radius: 3

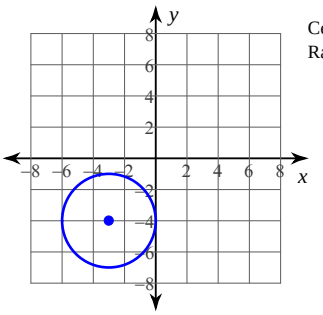
6) $(x+4)^2+(y-3)^2=1$

A)



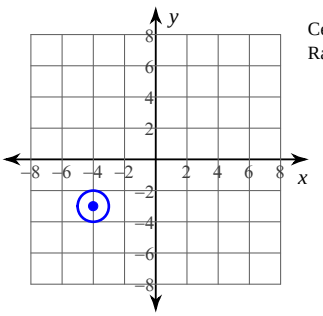
Center: (–3, 4)
Radius: 1

B)



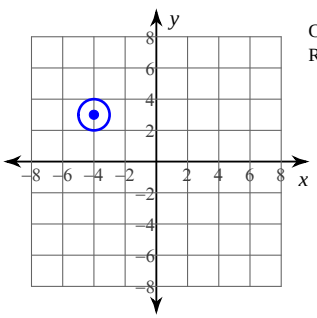
Center: (–3, –4)
Radius: 3

C)



Center: (–4, –3)
Radius: 1

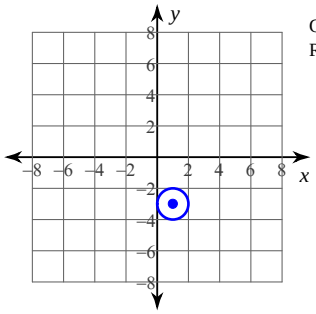
D)



Center: (–4, 3)
Radius: 1

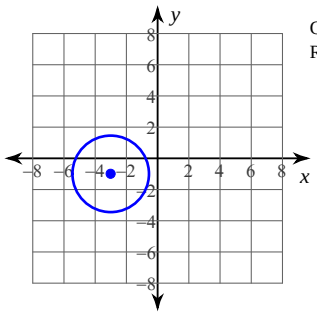
7) $(x+3)^2+(y+1)^2=6$

A)



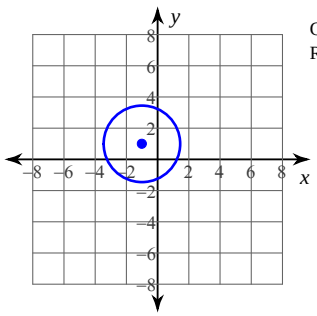
Center: $(1, -3)$
Radius: 1

B)



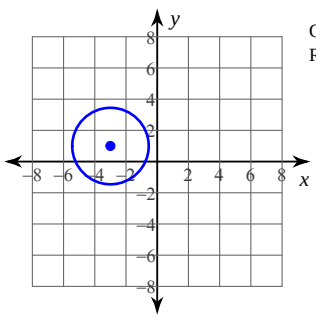
Center: $(-3, -1)$
Radius: $\sqrt{6}$

C)



Center: $(-1, 1)$
Radius: $\sqrt{6}$

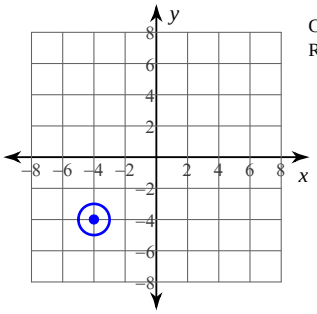
D)



Center: $(-3, 1)$
Radius: $\sqrt{6}$

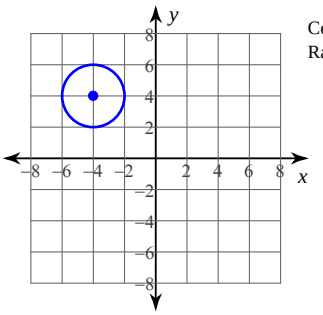
8) $(x+4)^2+(y+4)^2=4$

A)



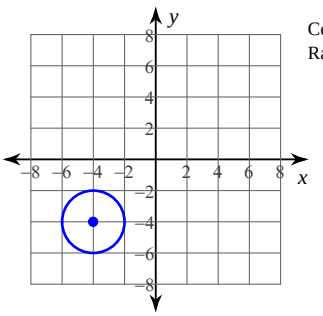
Center: $(-4, -4)$
Radius: 1

B)



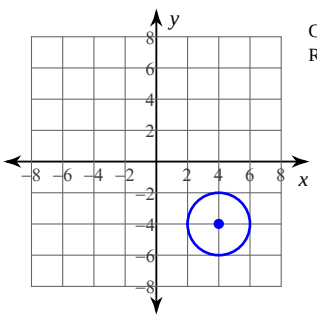
Center: $(-4, 4)$
Radius: 2

C)



Center: $(-4, -4)$
Radius: 2

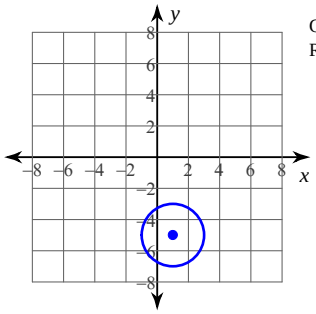
D)



Center: $(4, -4)$
Radius: 2

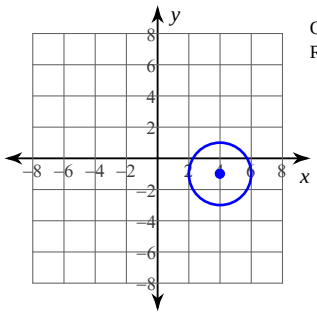
9) $(x-4)^2+(y+1)^2=4$

A)



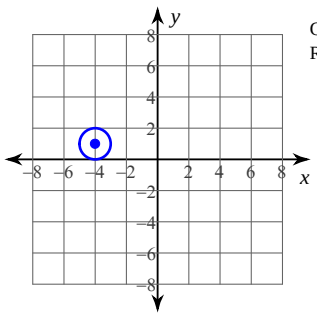
Center: (1, –5)
Radius: 2

B)



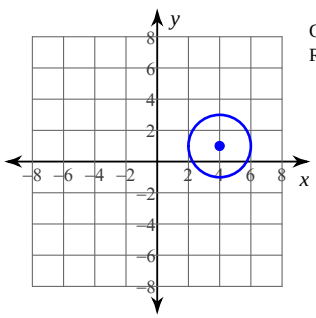
Center: (4, –1)
Radius: 2

C)



Center: (–4, 1)
Radius: 1

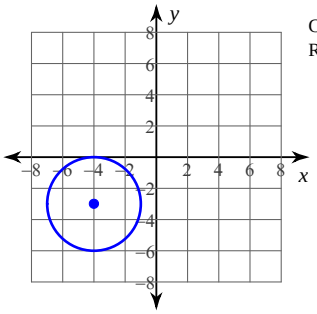
D)



Center: (4, 1)
Radius: 2

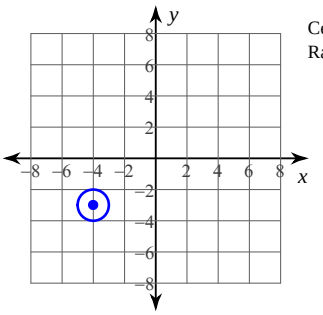
10) $(x+4)^2+(y+3)^2=1$

A)



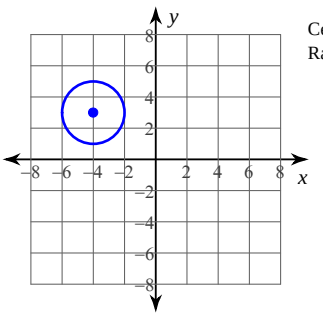
Center: (–4, –3)
Radius: 3

B)



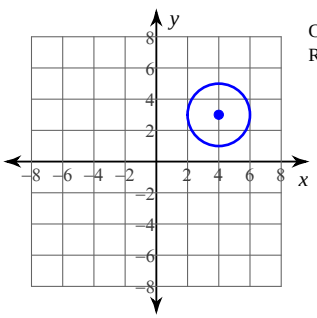
Center: (–4, –3)
Radius: 1

C)



Center: (–4, 3)
Radius: 2

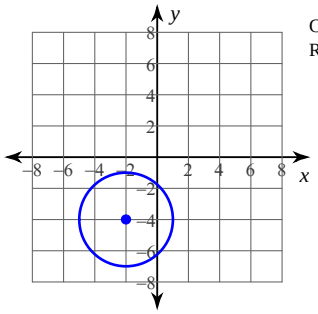
D)



Center: (4, 3)
Radius: 2

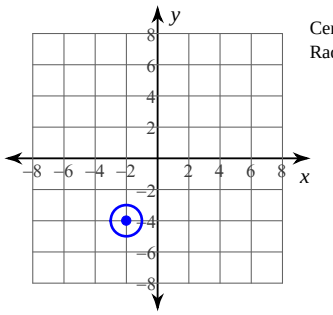
11) $(x-4)^2+(y-2)^2=1$

A)



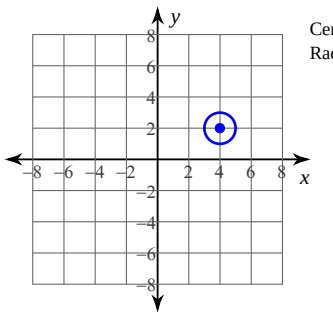
Center: (–2, –4)
Radius: 3

B)



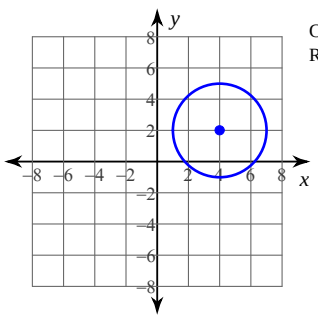
Center: (–2, –4)
Radius: 1

C)



Center: (4, 2)
Radius: 1

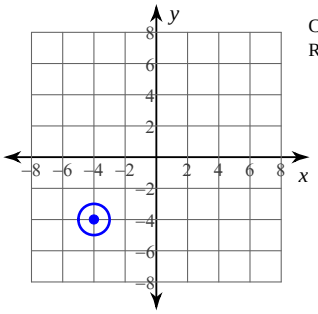
D)



Center: (4, 2)
Radius: 3

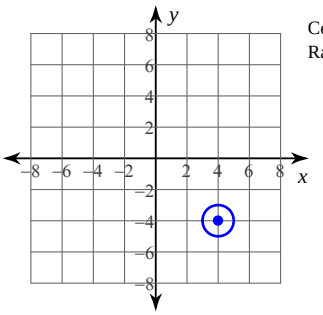
12) $(x-4)^2+(y+4)^2=1$

A)



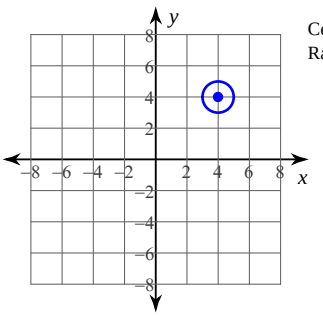
Center: (–4, –4)
Radius: 1

B)



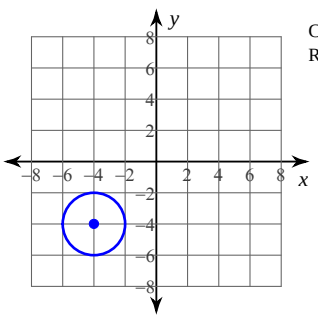
Center: (4, –4)
Radius: 1

C)



Center: (4, 4)
Radius: 1

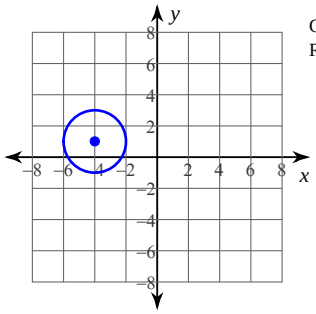
D)



Center: (–4, –4)
Radius: 2

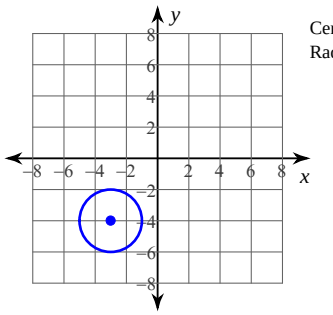
13) $(x-4)^2+(y-3)^2=4$

A)



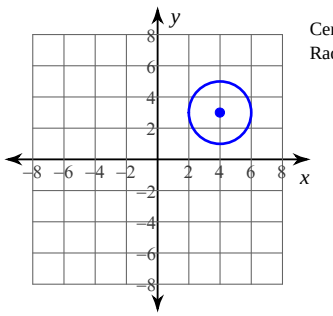
Center: (–4, 1)
Radius: 2

B)



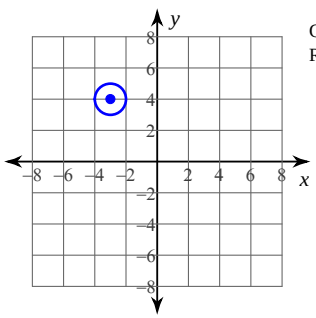
Center: (–3, –4)
Radius: 2

C)



Center: (4, 3)
Radius: 2

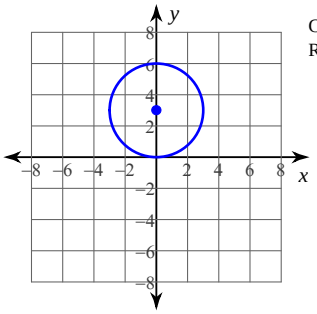
D)



Center: (–3, 4)
Radius: 1

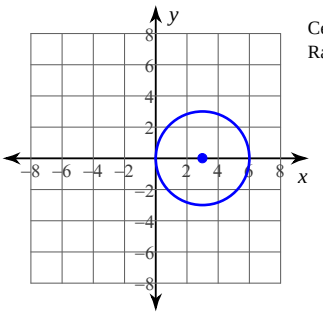
14) $(x-3)^2+y^2=9$

A)



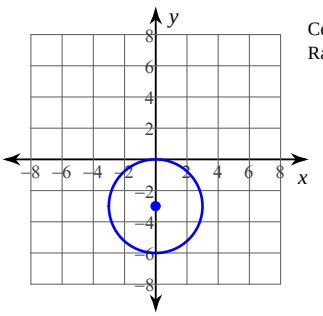
Center: (0, 3)
Radius: 3

B)



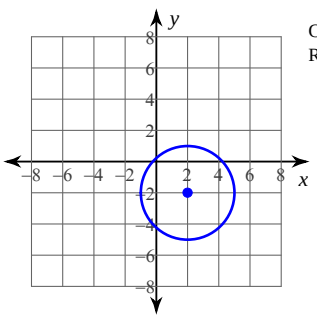
Center: (3, 0)
Radius: 3

C)



Center: (0, –3)
Radius: 3

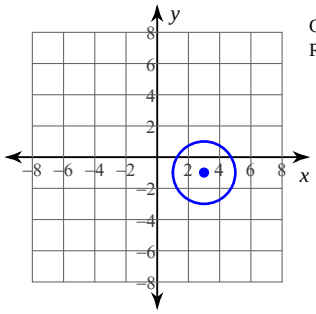
D)



Center: (2, –2)
Radius: 3

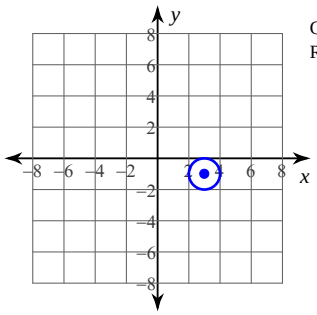
15) $(x-3)^2+(y+1)^2=4$

A)



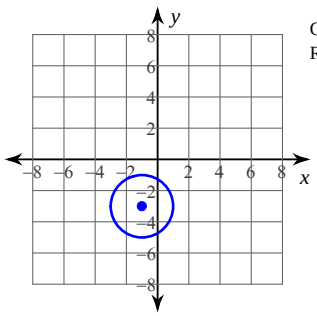
Center: $(3, -1)$
Radius: 2

B)



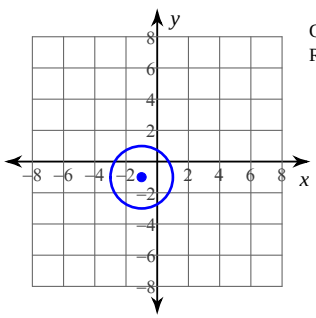
Center: $(3, -1)$
Radius: 1

C)



Center: $(-1, -3)$
Radius: 2

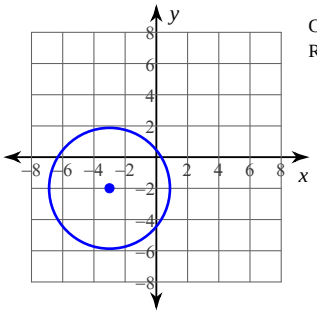
D)



Center: $(-1, -1)$
Radius: 2

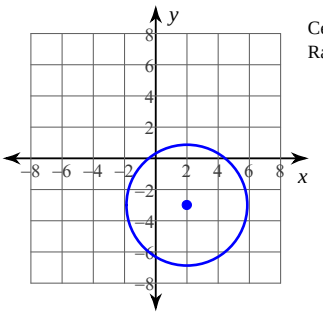
16) $(x-2)^2+(y+3)^2=15$

A)



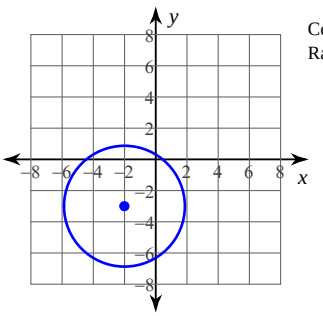
Center: $(-3, -2)$
Radius: $\sqrt{15}$

B)



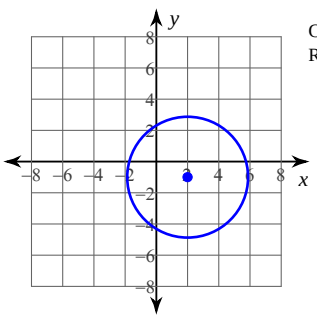
Center: $(2, -3)$
Radius: $\sqrt{15}$

C)



Center: $(-2, -3)$
Radius: $\sqrt{15}$

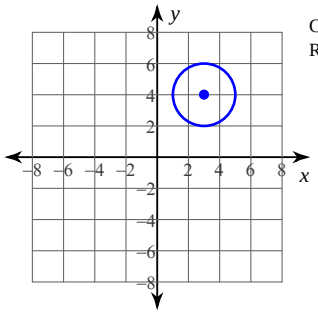
D)



Center: $(2, -1)$
Radius: $\sqrt{15}$

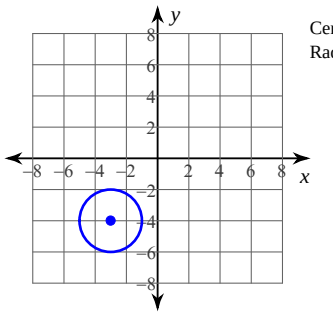
17) $(x-3)^2+(y-4)^2=4$

A)



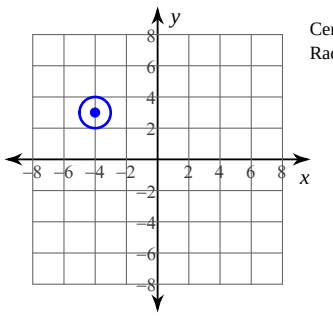
Center: (3, 4)
Radius: 2

B)



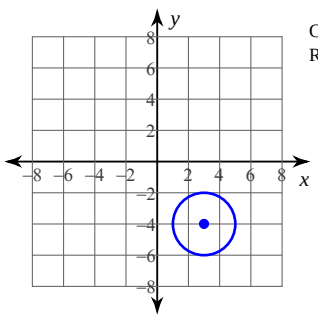
Center: (−3, −4)
Radius: 2

C)



Center: (−4, 3)
Radius: 1

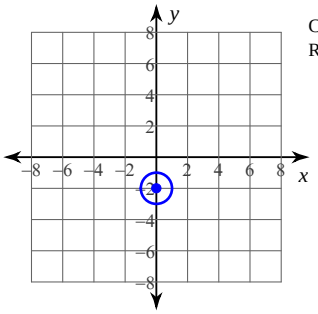
D)



Center: (3, −4)
Radius: 2

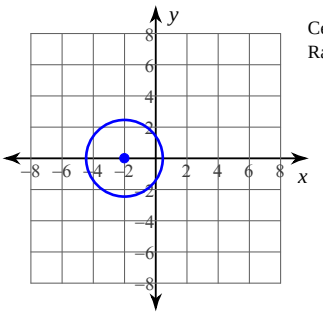
18) $(x-2)^2+y^2=6$

A)



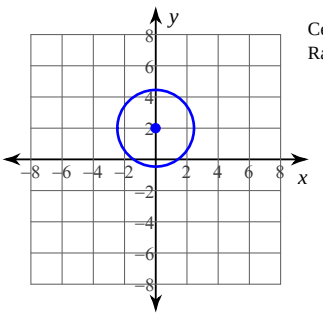
Center: (0, −2)
Radius: 1

B)



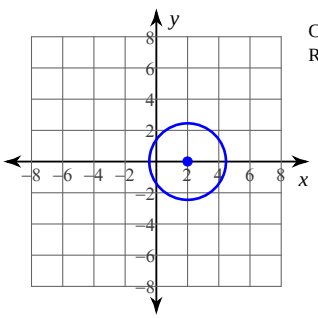
Center: $(-2, 0)$
Radius: $\sqrt{6}$

C)



Center: $(0, 2)$
Radius: $\sqrt{6}$

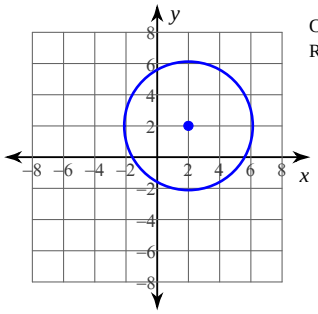
D)



Center: $(2, 0)$
Radius: $\sqrt{6}$

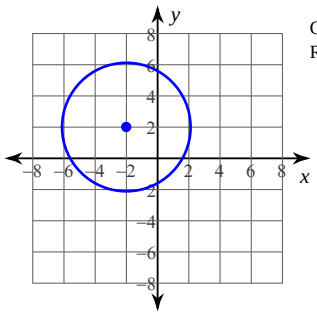
19) $(x-2)^2+(y-2)^2=17$

A)



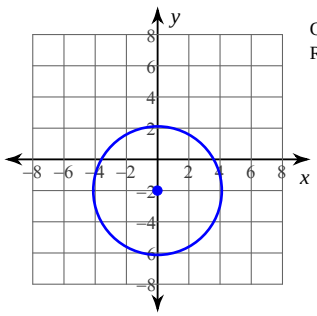
Center: $(2, 2)$
Radius: $\sqrt{17}$

B)



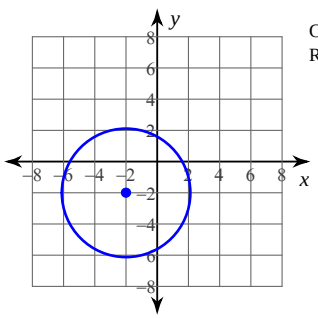
Center: $(-2, 2)$
Radius: $\sqrt{17}$

C)



Center: $(0, -2)$
Radius: $\sqrt{17}$

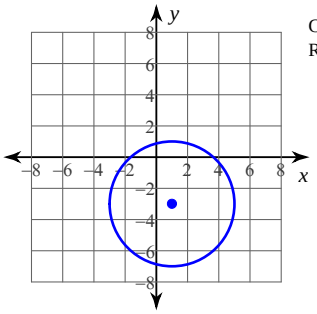
D)



Center: $(-2, -2)$
Radius: $\sqrt{17}$

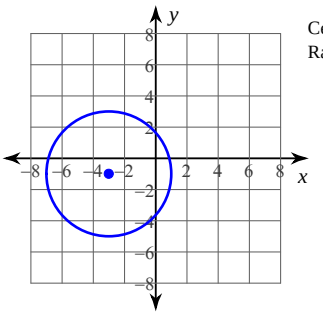
20) $(x-1)^2+(y+3)^2=16$

A)



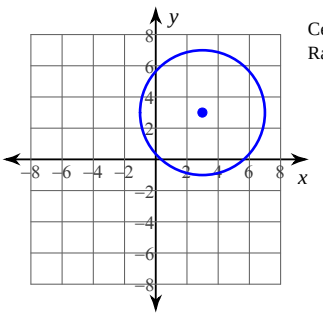
Center: $(1, -3)$
Radius: 4

B)



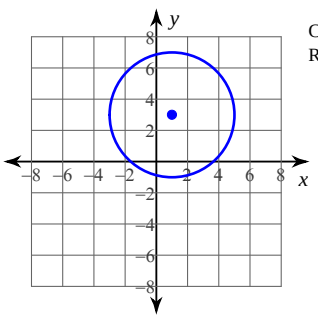
Center: $(-3, -1)$
Radius: 4

C)



Center: $(3, 3)$
Radius: 4

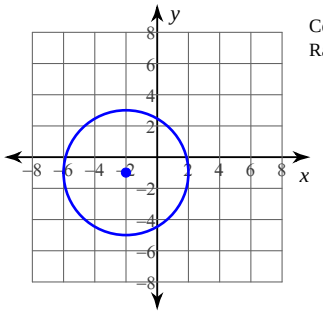
D)



Center: $(1, 3)$
Radius: 4

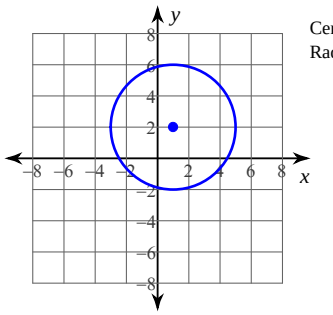
21) $(x-1)^2+(y+2)^2=16$

A)



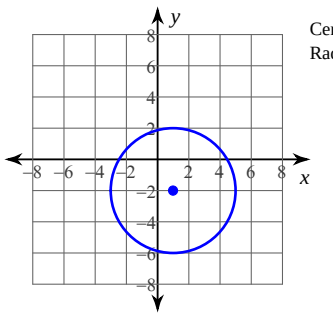
Center: (–2, –1)
Radius: 4

B)



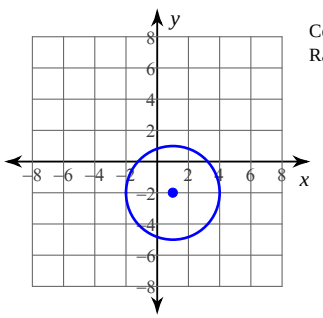
Center: (1, 2)
Radius: 4

C)



Center: (1, –2)
Radius: 4

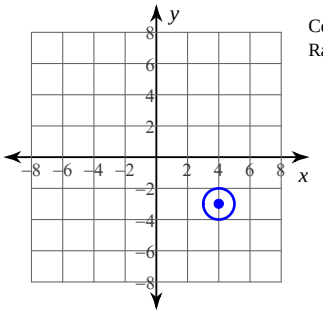
D)



Center: (1, –2)
Radius: 3

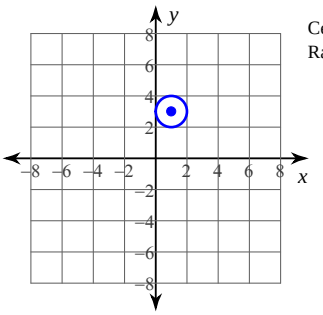
22) $(x-1)^2+(y-3)^2=1$

A)



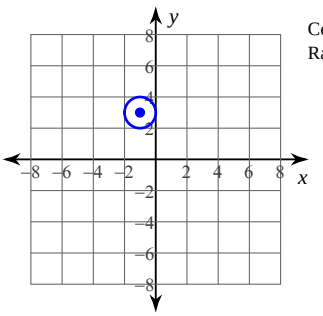
Center: (4, –3)
Radius: 1

B)



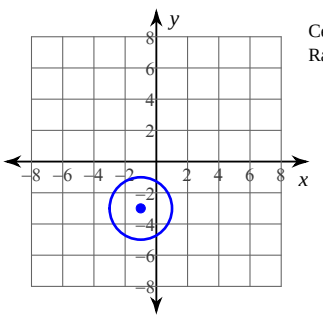
Center: (1, 3)
Radius: 1

C)



Center: (–1, 3)
Radius: 1

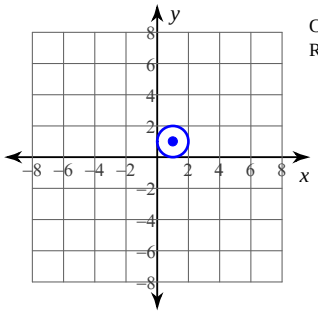
D)



Center: (–1, –3)
Radius: 2

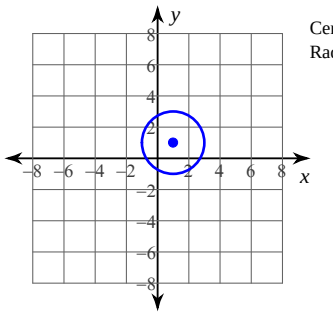
23) $(x-1)^2+(y-1)^2=1$

A)



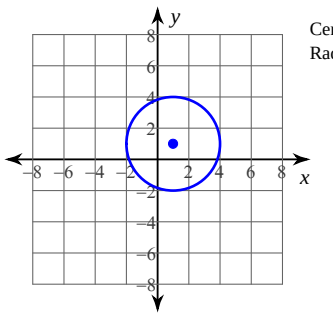
Center: (1, 1)
Radius: 1

B)



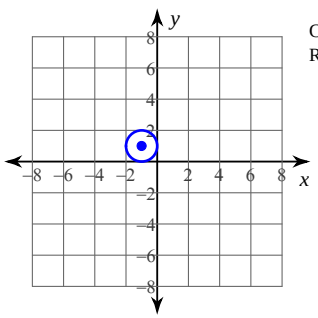
Center: (1, 1)
Radius: 2

C)



Center: (1, 1)
Radius: 3

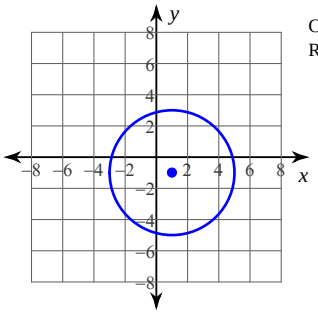
D)



Center: (–1, 1)
Radius: 1

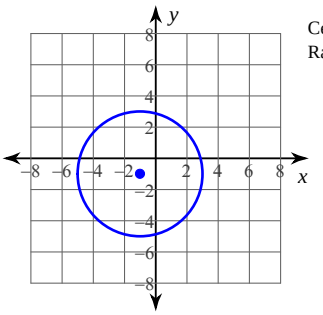
24) $(x-1)^2+(y+1)^2=16$

A)



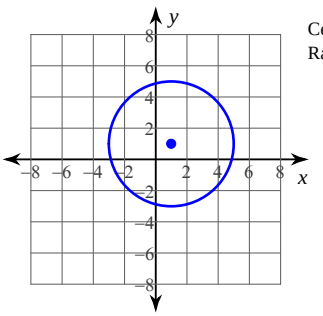
Center: (1, –1)
Radius: 4

B)



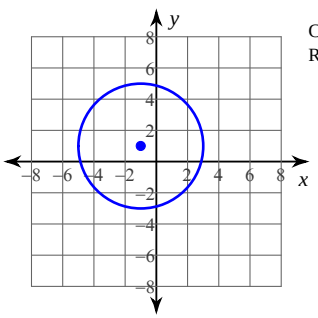
Center: (–1, –1)
Radius: 4

C)



Center: (1, 1)
Radius: 4

D)



Center: (–1, 1)
Radius: 4

Answers to Assignment (ID: 5)

1) D
2) A
3) A
4) B
5) D
6) D
7) B
8) C
9) B
10) B
11) C
12) B
13) C
14) B
15) A
16) B
17) A
18) D
19) A
20) A
21) C
22) B
23) A
24) A

Geometry Name_____

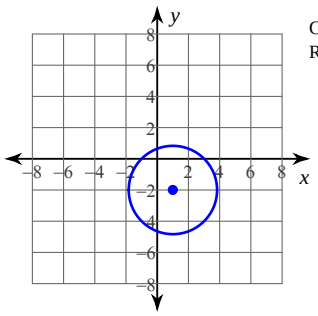
Assignment

Date_____ Period____

Identify the center and radius of each. Then sketch the graph.

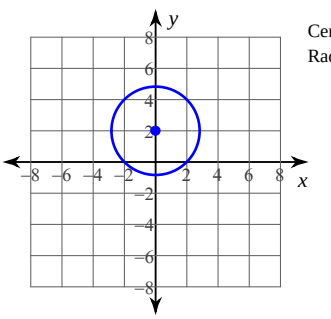
1) $x^2 + (y+2)^2 = 8$

A)



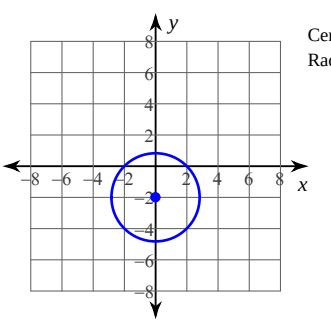
Center: $(1, -2)$
Radius: $2\sqrt{2}$

B)



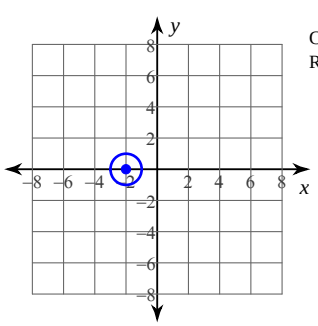
Center: $(0, 2)$
Radius: $2\sqrt{2}$

C)



Center: $(0, -2)$
Radius: $2\sqrt{2}$

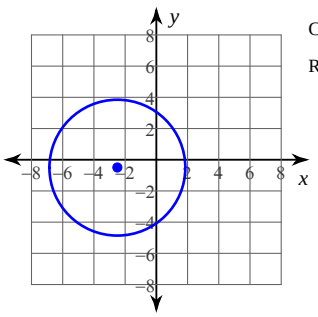
D)



Center: $(-2, 0)$
Radius: 1

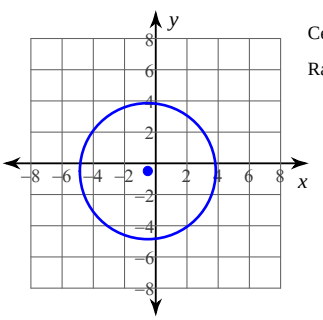
2) $\left(x - \frac{1}{2}\right)^2 + \left(y - \frac{1}{2}\right)^2 = 19$

A)



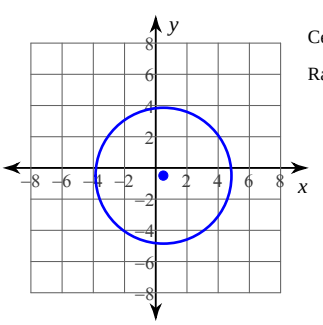
Center: $\left(-\frac{5}{2}, -\frac{1}{2}\right)$
Radius: $\sqrt{19}$

B)



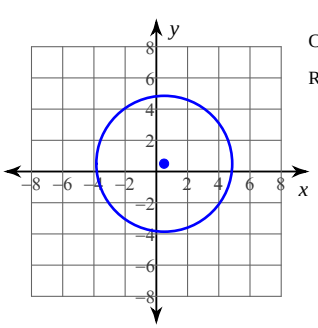
Center: $\left(-\frac{1}{2}, -\frac{1}{2}\right)$
Radius: $\sqrt{19}$

C)



Center: $\left(\frac{1}{2}, -\frac{1}{2}\right)$
Radius: $\sqrt{19}$

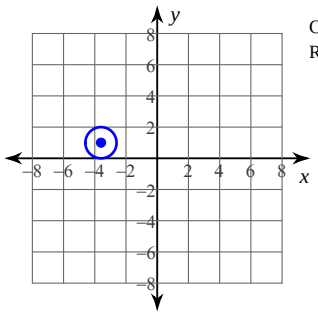
D)



Center: $\left(\frac{1}{2}, \frac{1}{2}\right)$
Radius: $\sqrt{19}$

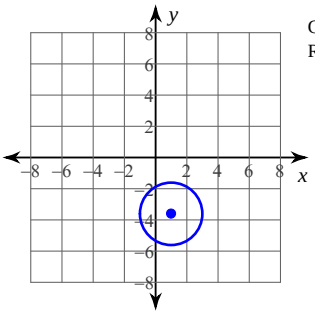
3) $(x-1)^2+\left(y-\sqrt{13}\right)^2=4$

A)



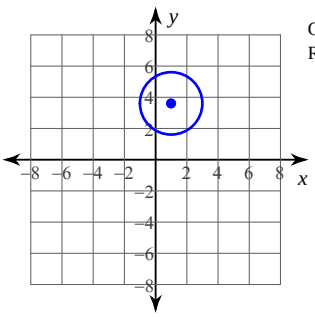
Center: $(-\sqrt{13}, 1)$
Radius: 1

B)



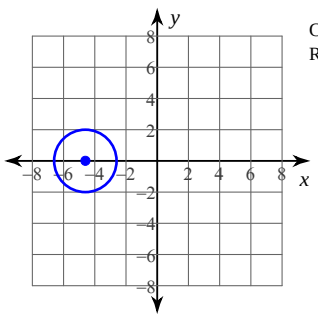
Center: $(1, -\sqrt{13})$
Radius: 2

C)



Center: $(1, \sqrt{13})$
Radius: 2

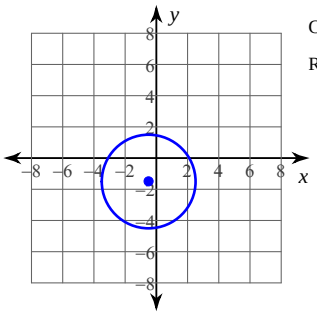
D)



Center: $(-\sqrt{13}-1, 0)$
Radius: 2

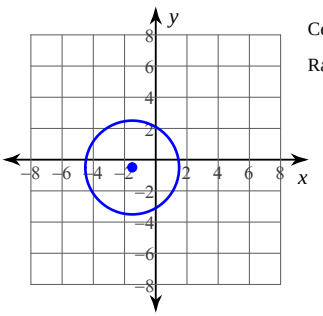
4) $\left(x-\frac{1}{2}\right)^2+\left(y-\frac{1}{2}\right)^2=9$

A)



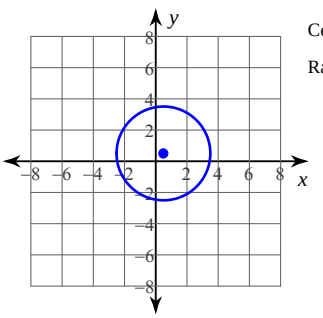
Center: $\left(-\frac{1}{2}, -\frac{3}{2}\right)$
Radius: 3

B)



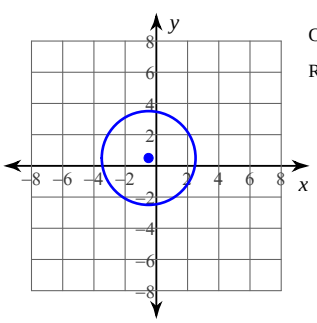
Center: $\left(-\frac{3}{2}, -\frac{1}{2}\right)$
Radius: 3

C)



Center: $\left(\frac{1}{2}, \frac{1}{2}\right)$
Radius: 3

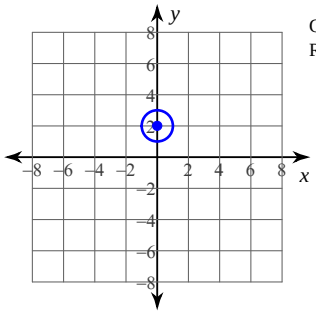
D)



Center: $\left(-\frac{1}{2}, \frac{1}{2}\right)$
Radius: 3

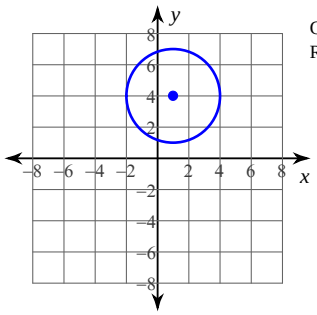
5) $(x+1)^2+(y+4)^2=9$

A)



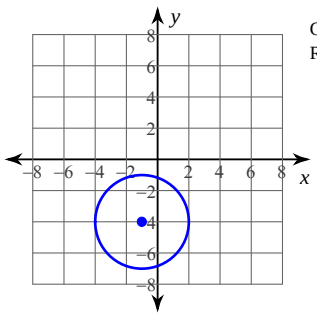
Center: (0, 2)
Radius: 1

B)



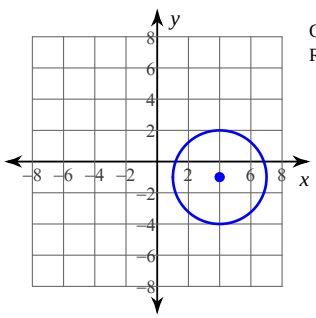
Center: (1, 4)
Radius: 3

C)



Center: (−1, −4)
Radius: 3

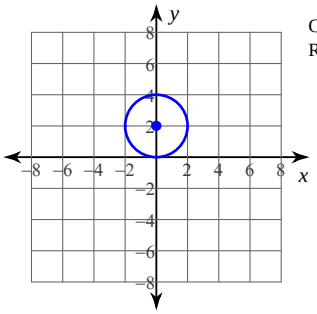
D)



Center: (4, −1)
Radius: 3

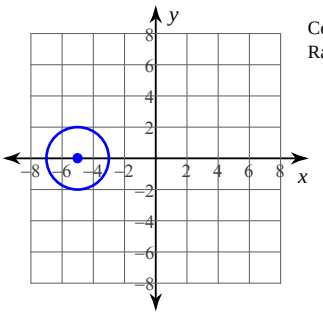
6) $(x+4)^2+y^2=4$

A)



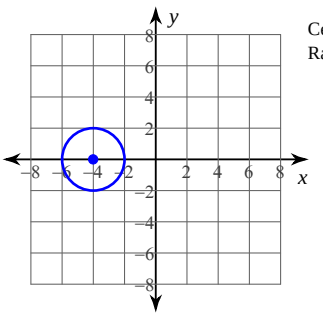
Center: (0, 2)
Radius: 2

B)



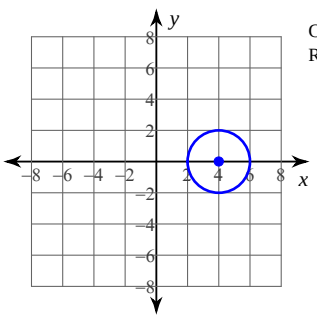
Center: (−5, 0)
Radius: 2

C)



Center: (−4, 0)
Radius: 2

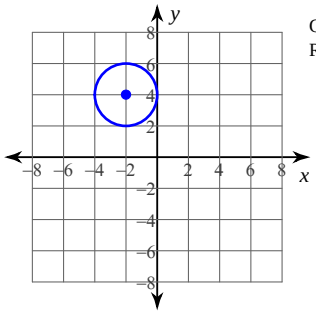
D)



Center: (4, 0)
Radius: 2

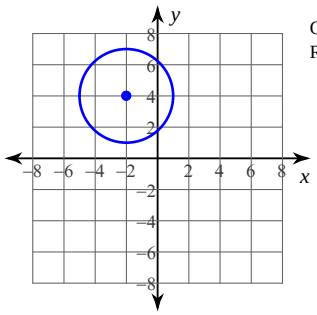
7) $(x+2)^2+(y-4)^2=9$

A)



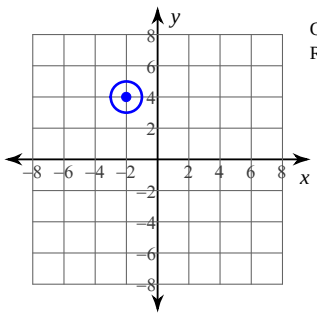
Center: (–2, 4)
Radius: 2

B)



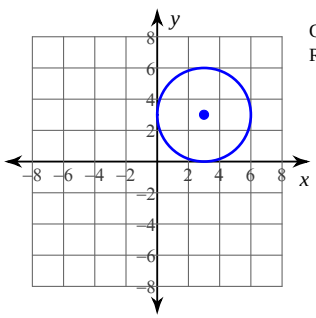
Center: (–2, 4)
Radius: 3

C)



Center: (–2, 4)
Radius: 1

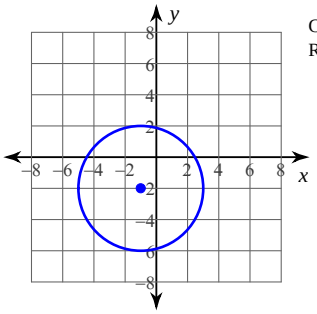
D)



Center: (3, 3)
Radius: 3

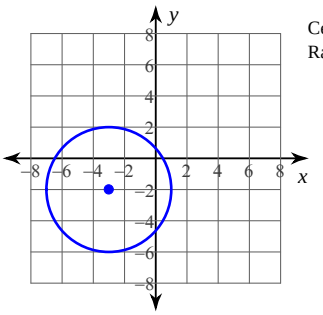
8) $(x+2)^2+(y-2)^2=16$

A)



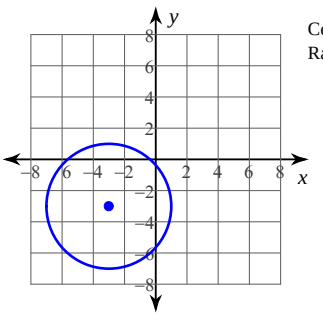
Center: (–1, –2)
Radius: 4

B)



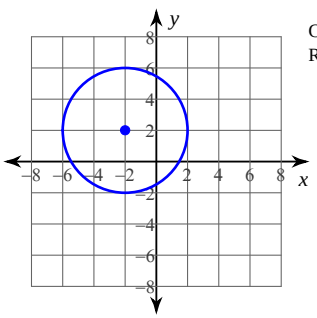
Center: (–3, –2)
Radius: 4

C)



Center: (–3, –3)
Radius: 4

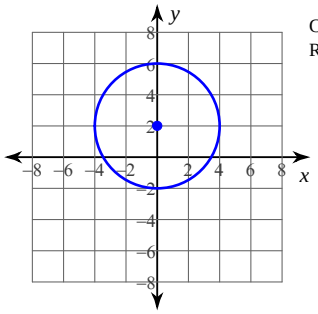
D)



Center: (–2, 2)
Radius: 4

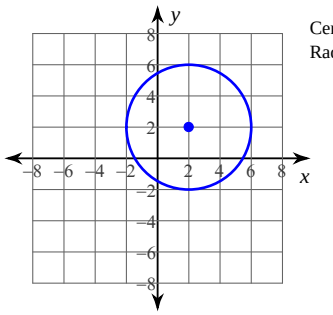
9) $(x+2)^2+(y+2)^2=4$

A)



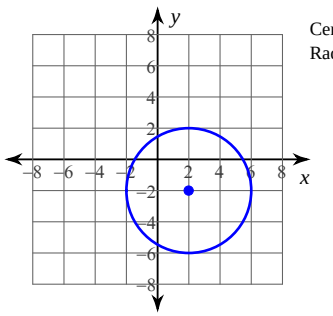
Center: $(0, 2)$
Radius: 4

B)



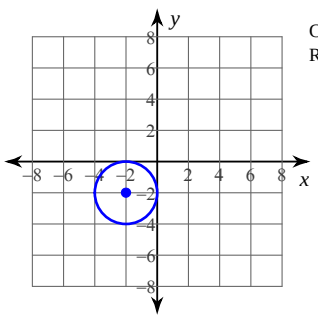
Center: $(2, 2)$
Radius: 4

C)



Center: $(2, -2)$
Radius: 4

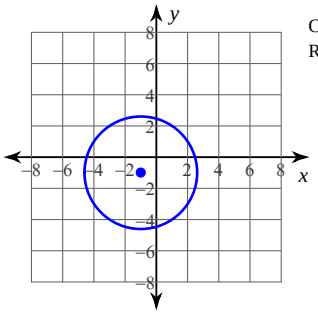
D)



Center: $(-2, -2)$
Radius: 2

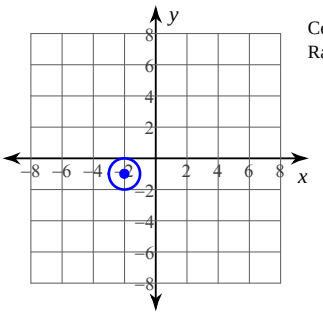
10) $(x+2)^2+(y+1)^2=13$

A)



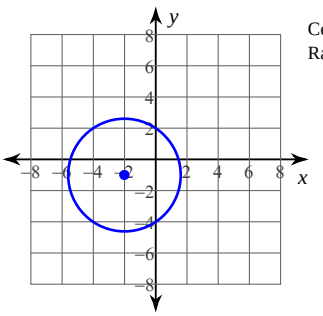
Center: $(-1, -1)$
Radius: $\sqrt{13}$

B)



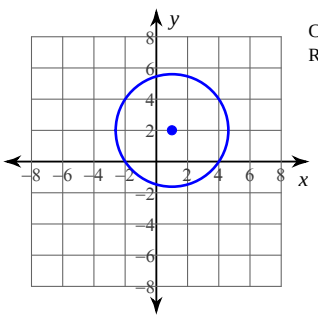
Center: $(-2, -1)$
Radius: 1

C)



Center: $(-2, -1)$
Radius: $\sqrt{13}$

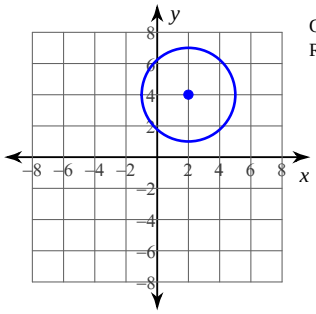
D)



Center: $(1, 2)$
Radius: $\sqrt{13}$

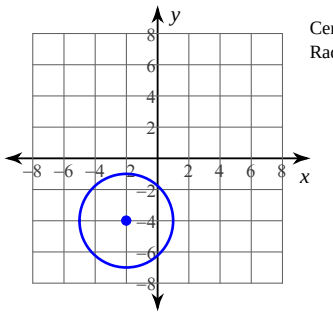
11) $(x+2)^2+(y+4)^2=9$

A)



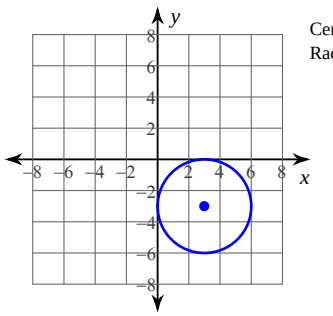
Center: (2, 4)
Radius: 3

B)



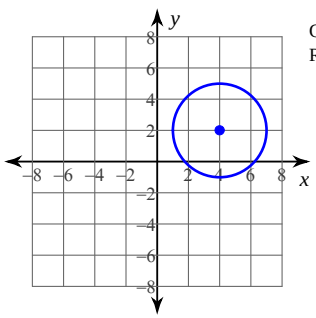
Center: (−2, −4)
Radius: 3

C)



Center: (3, −3)
Radius: 3

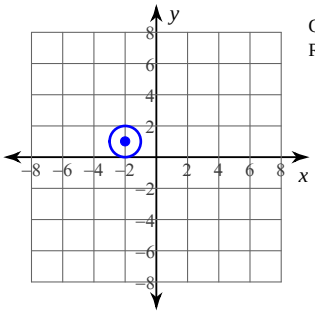
D)



Center: (4, 2)
Radius: 3

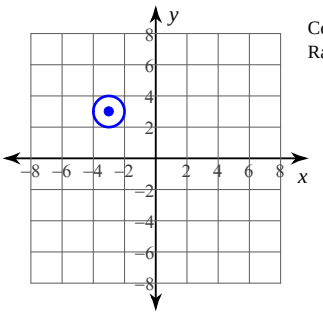
12) $(x+3)^2+(y-3)^2=1$

A)



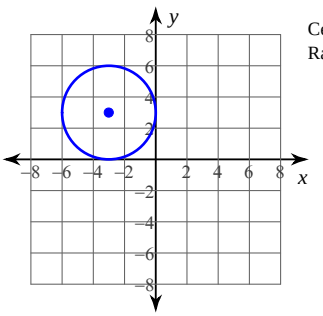
Center: (−2, 1)
Radius: 1

B)



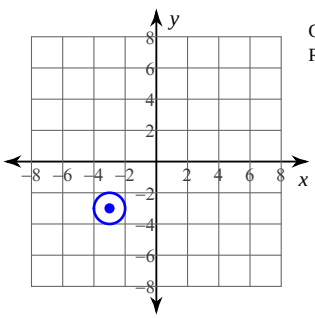
Center: (−3, 3)
Radius: 1

C)



Center: (−3, 3)
Radius: 3

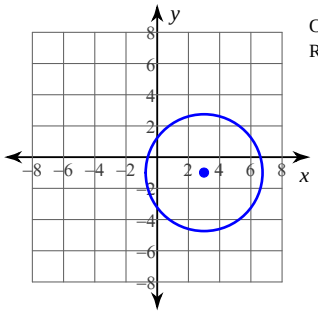
D)



Center: (−3, −3)
Radius: 1

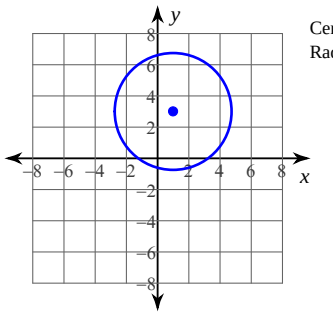
13) $(x+3)^2+(y-1)^2=14$

A)



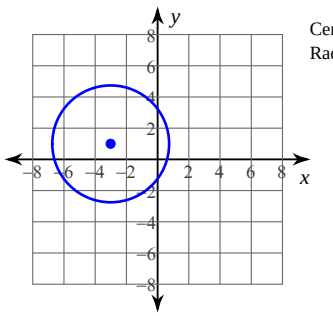
Center: $(3, -1)$
Radius: $\sqrt{14}$

B)



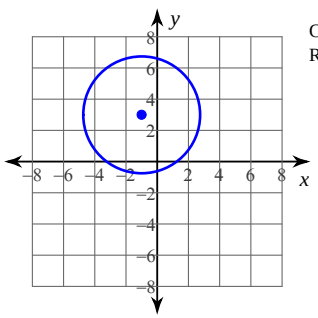
Center: $(1, 3)$
Radius: $\sqrt{14}$

C)



Center: $(-3, 1)$
Radius: $\sqrt{14}$

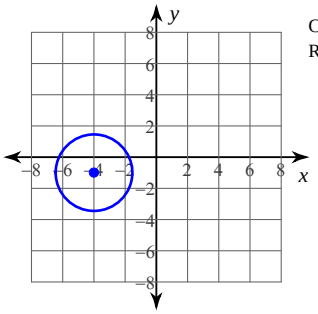
D)



Center: $(-1, 3)$
Radius: $\sqrt{14}$

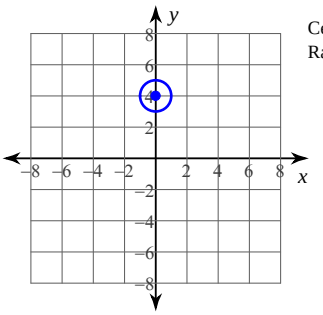
14) $(x+4)^2+(y+1)^2=6$

A)



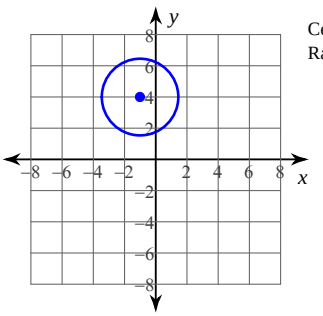
Center: $(-4, -1)$
Radius: $\sqrt{6}$

B)



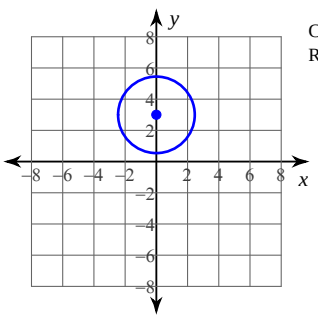
Center: $(0, 4)$
Radius: 1

C)



Center: $(-1, 4)$
Radius: $\sqrt{6}$

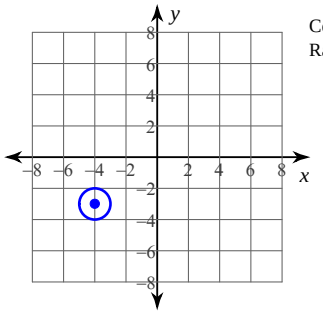
D)



Center: $(0, 3)$
Radius: $\sqrt{6}$

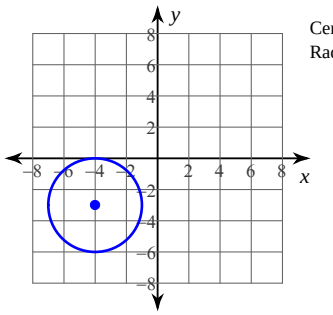
15) $(x+4)^2+(y+3)^2=1$

A)



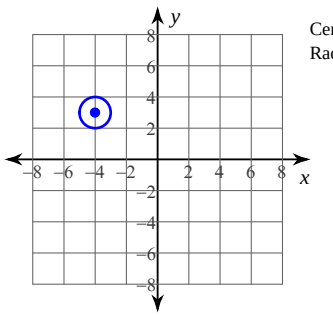
Center: (–4, –3)
Radius: 1

B)



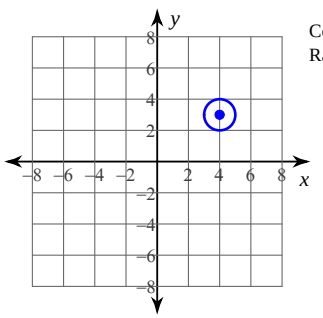
Center: (–4, –3)
Radius: 3

C)



Center: (–4, 3)
Radius: 1

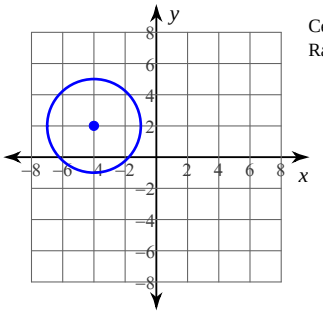
D)



Center: (4, 3)
Radius: 1

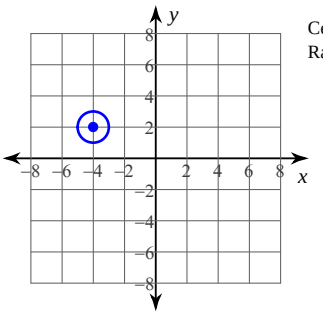
16) $(x+4)^2+(y-2)^2=9$

A)



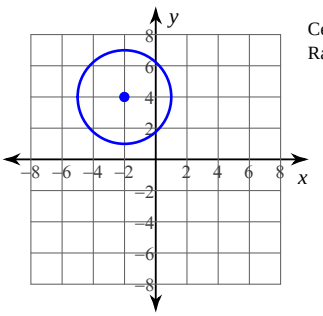
Center: (–4, 2)
Radius: 3

B)



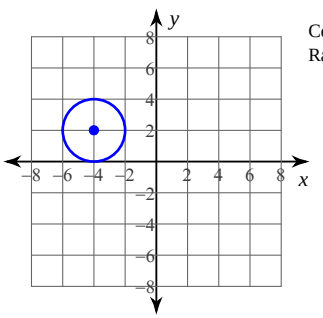
Center: (–4, 2)
Radius: 1

C)



Center: (–2, 4)
Radius: 3

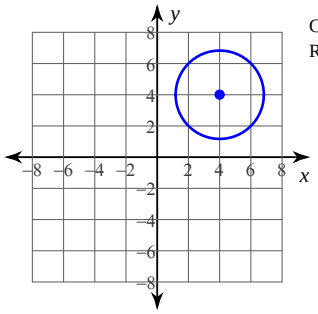
D)



Center: (–4, 2)
Radius: 2

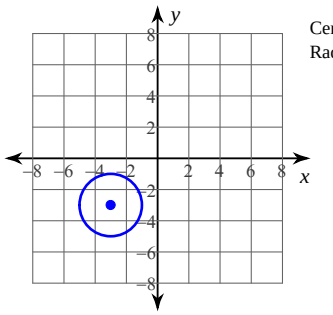
17) $(x+4)^2+(y-4)^2=8$

A)



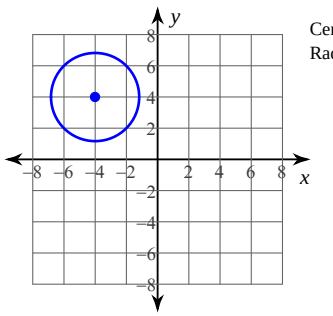
Center: (4, 4)
Radius: $2\sqrt{2}$

B)



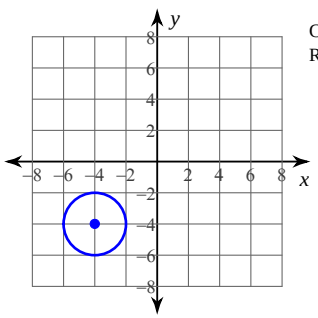
Center: (−3, −3)
Radius: 2

C)



Center: (−4, 4)
Radius: $2\sqrt{2}$

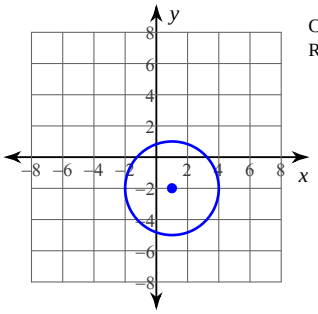
D)



Center: (−4, −4)
Radius: 2

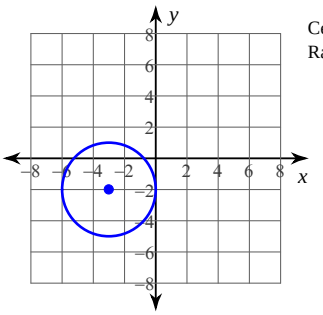
18) $(x-4)^2+y^2=9$

A)



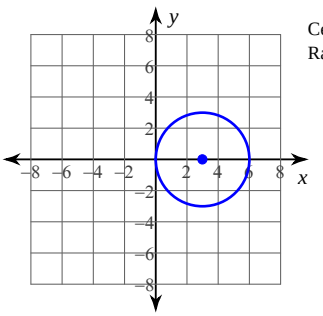
Center: (1, −2)
Radius: 3

B)



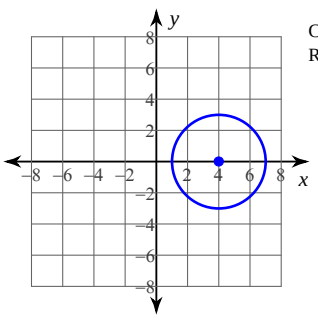
Center: (−3, −2)
Radius: 3

C)



Center: (3, 0)
Radius: 3

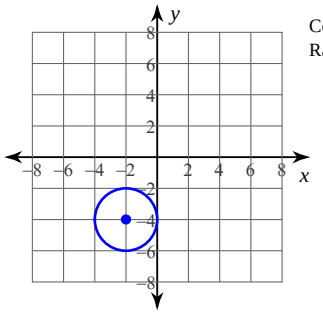
D)



Center: (4, 0)
Radius: 3

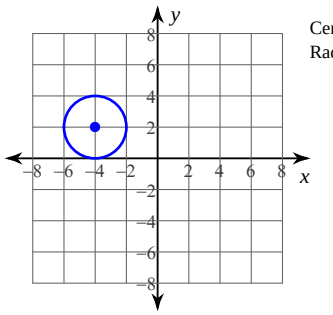
19) $(x-4)^2+(y+2)^2=4$

A)



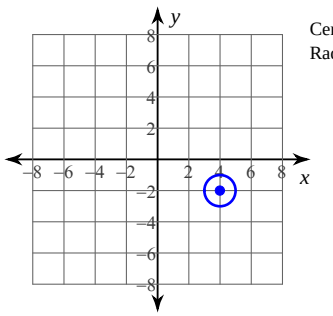
Center: (–2, –4)
Radius: 2

B)



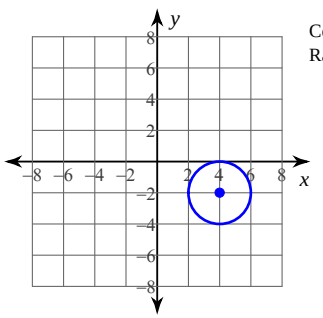
Center: (–4, 2)
Radius: 2

C)



Center: (4, –2)
Radius: 1

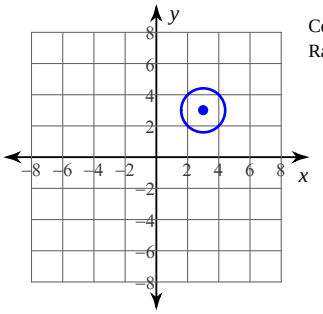
D)



Center: (4, –2)
Radius: 2

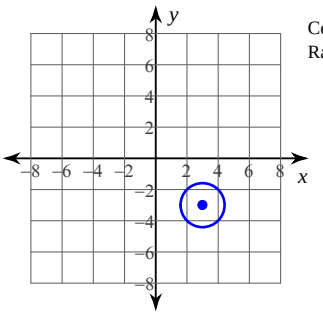
20) $(x-3)^2+(y-3)^2=2$

A)



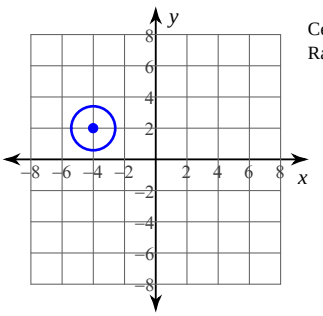
Center: (3, 3)
Radius: $\sqrt{2}$

B)



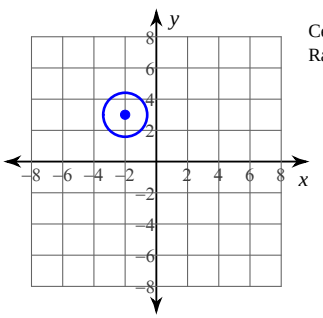
Center: (3, –3)
Radius: $\sqrt{2}$

C)



Center: (–4, 2)
Radius: $\sqrt{2}$

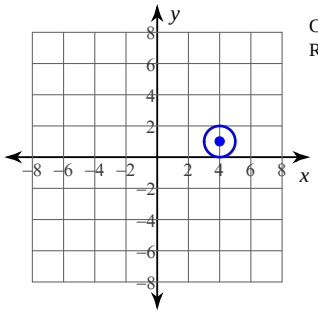
D)



Center: (–2, 3)
Radius: $\sqrt{2}$

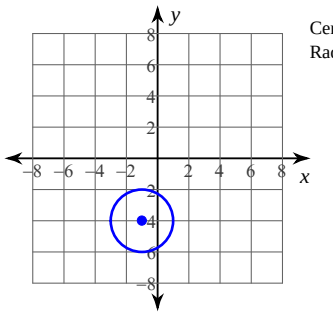
21) $(x-4)^2+(y-1)^2=4$

A)



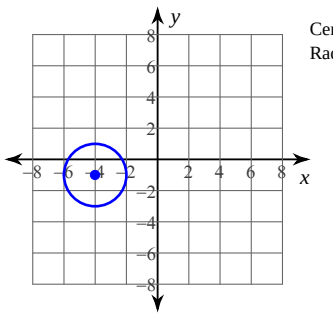
Center: (4, 1)
Radius: 1

B)



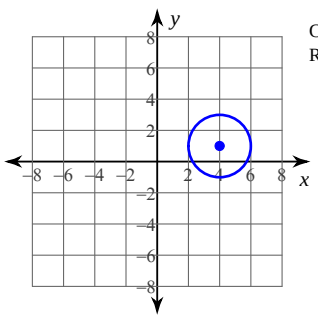
Center: (−1, −4)
Radius: 2

C)



Center: (−4, −1)
Radius: 2

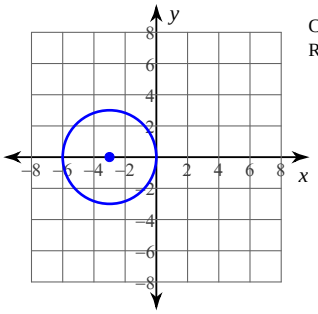
D)



Center: (4, 1)
Radius: 2

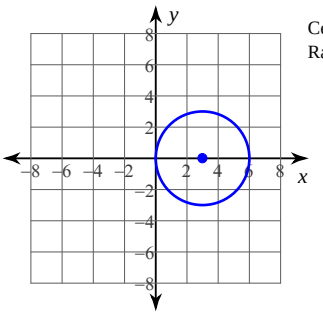
22) $(x-3)^2+y^2=9$

A)



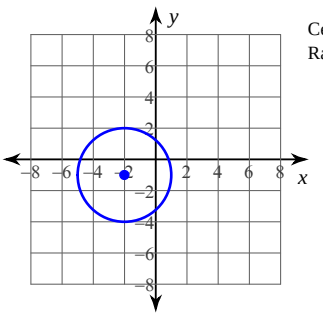
Center: (−3, 0)
Radius: 3

B)



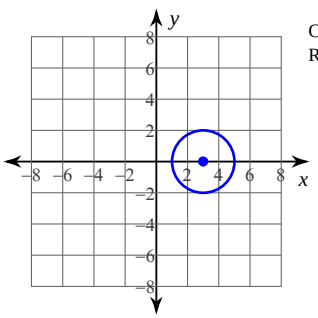
Center: (3, 0)
Radius: 3

C)



Center: (−2, −1)
Radius: 3

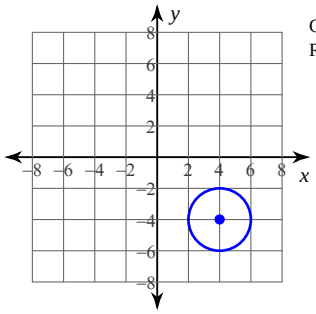
D)



Center: (3, 0)
Radius: 2

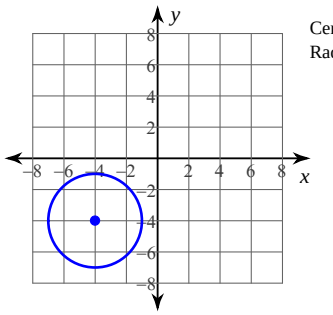
23) $(x-4)^2+(y+4)^2=9$

A)



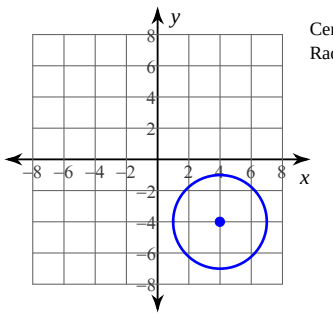
Center: (4, –4)
Radius: 2

B)



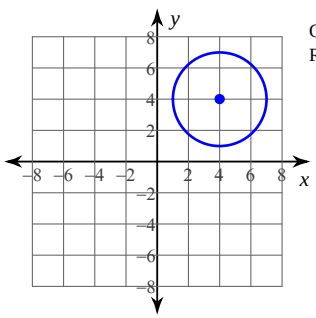
Center: (–4, –4)
Radius: 3

C)



Center: (4, –4)
Radius: 3

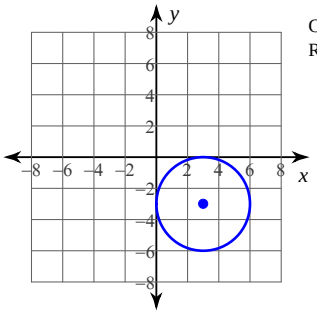
D)



Center: (4, 4)
Radius: 3

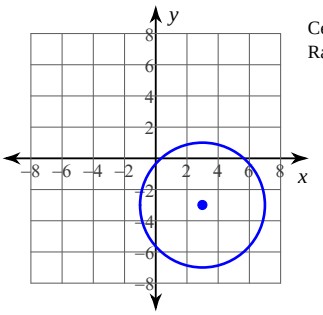
24) $(x-3)^2+(y+3)^2=16$

A)



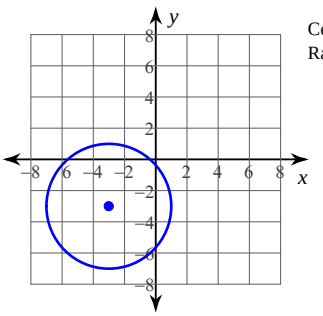
Center: (3, –3)
Radius: 3

B)



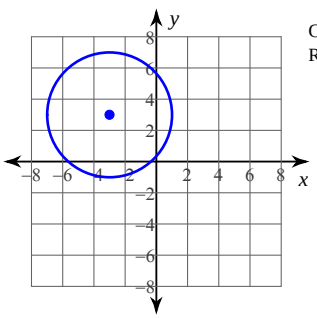
Center: (3, –3)
Radius: 4

C)



Center: (–3, –3)
Radius: 4

D)



Center: (–3, 3)
Radius: 4

Answers to Assignment (ID: 6)

1) C
2) D
3) C
4) C
5) C
6) C
7) B
8) D
9) D
10) C
11) B
12) B
13) C
14) A
15) A
16) A
17) C
18) D
19) D
20) A
21) D
22) B
23) C
24) B

Geometry Name_____

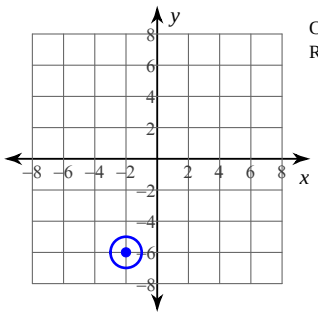
Assignment

Date_____ Period____

Identify the center and radius of each. Then sketch the graph.

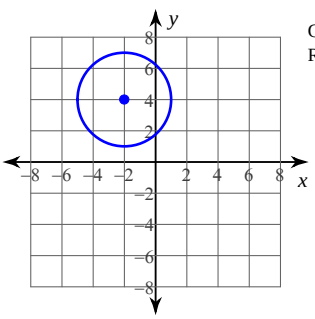
1) $(x-2)^2+(y-4)^2=1$

A)



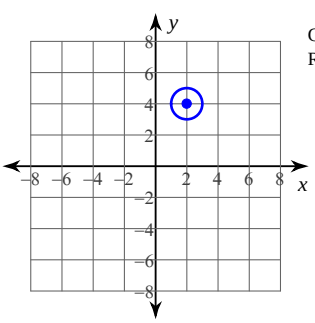
Center: (–2, –6)
Radius: 1

B)



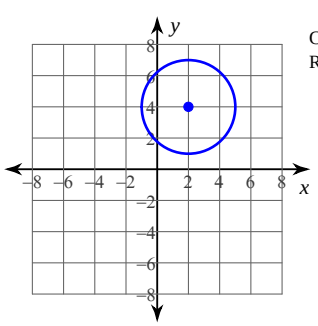
Center: (–2, 4)
Radius: 3

C)



Center: (2, 4)
Radius: 1

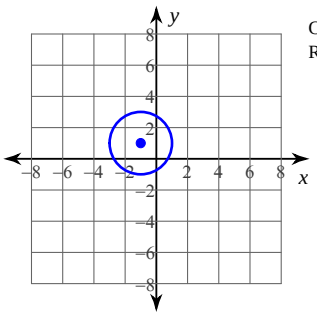
D)



Center: (2, 4)
Radius: 3

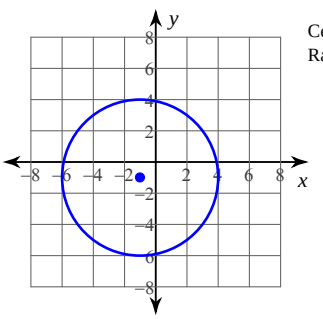
2) $(x-1)^2+(y-1)^2=25$

A)



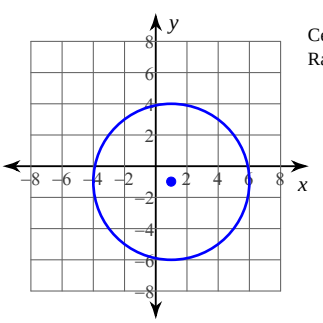
Center: (–1, 1)
Radius: 2

B)



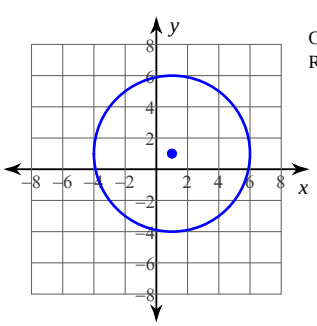
Center: (–1, –1)
Radius: 5

C)



Center: (1, –1)
Radius: 5

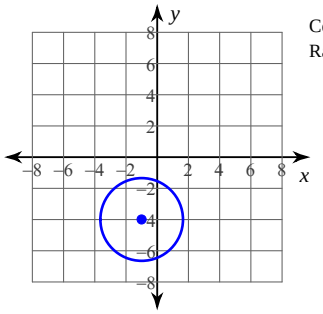
D)



Center: (1, 1)
Radius: 5

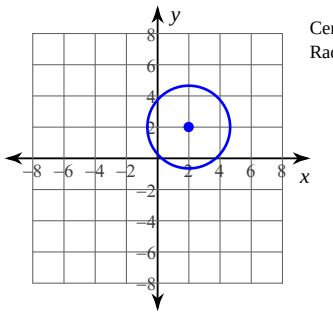
3) $(x-2)^2+(y+2)^2=7$

A)



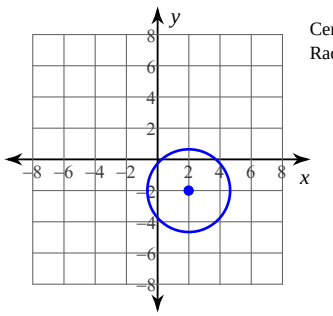
Center: $(-1, -4)$
Radius: $\sqrt{7}$

B)



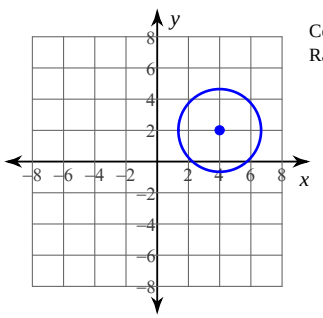
Center: $(2, 2)$
Radius: $\sqrt{7}$

C)



Center: $(2, -2)$
Radius: $\sqrt{7}$

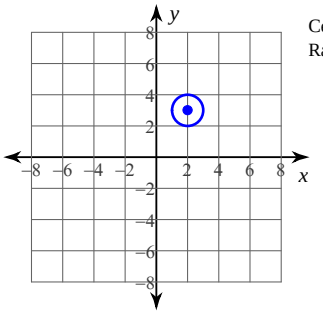
D)



Center: $(4, 2)$
Radius: $\sqrt{7}$

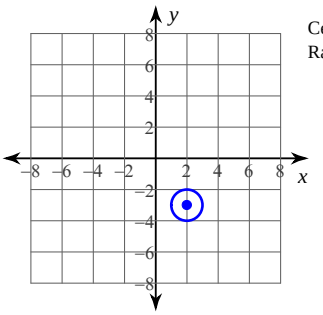
4) $(x-2)^2+(y-3)^2=7$

A)



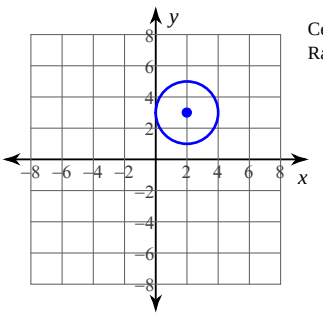
Center: $(2, 3)$
Radius: 1

B)



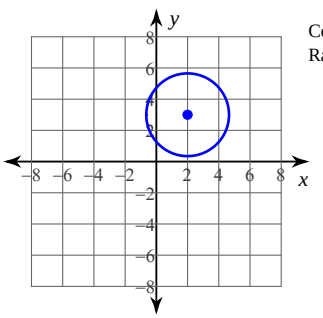
Center: $(2, -3)$
Radius: 1

C)



Center: $(2, 3)$
Radius: 2

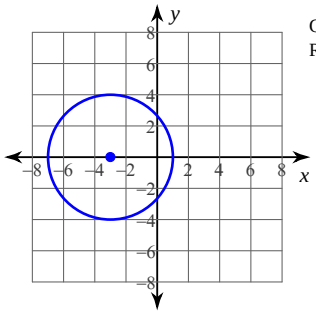
D)



Center: $(2, 3)$
Radius: $\sqrt{7}$

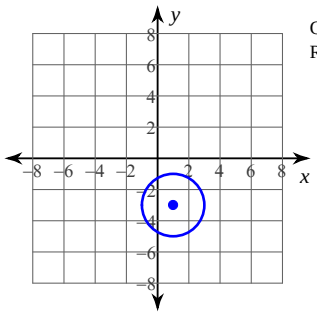
5) $(x-1)^2+(y+3)^2=4$

A)



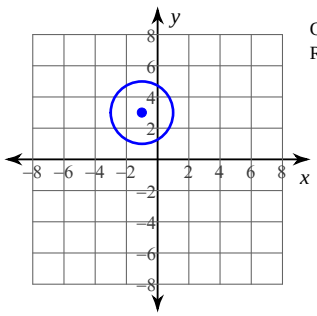
Center: (–3, 0)
Radius: 4

B)



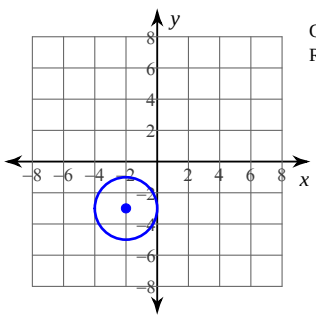
Center: (1, –3)
Radius: 2

C)



Center: (–1, 3)
Radius: 2

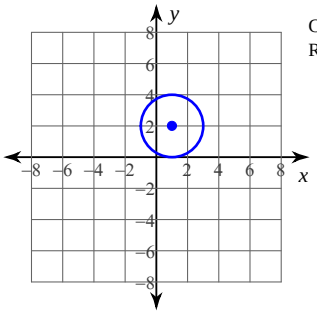
D)



Center: (–2, –3)
Radius: 2

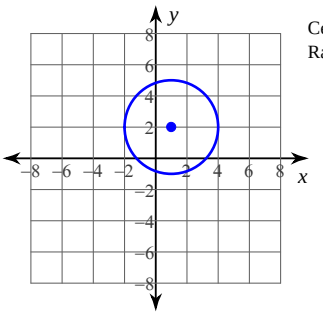
6) $(x-1)^2+(y-2)^2=9$

A)



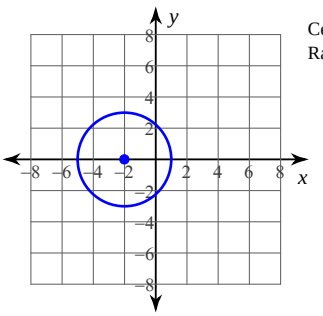
Center: (1, 2)
Radius: 2

B)



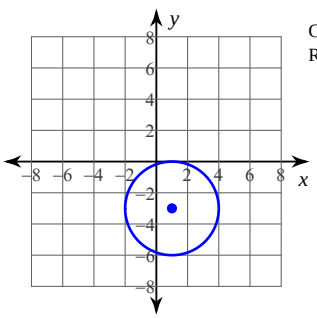
Center: (1, 2)
Radius: 3

C)



Center: (–2, 0)
Radius: 3

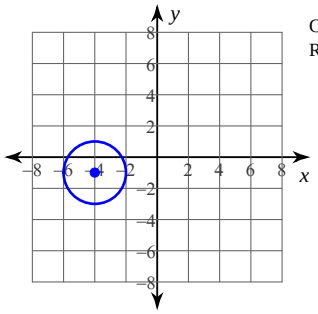
D)



Center: (1, –3)
Radius: 3

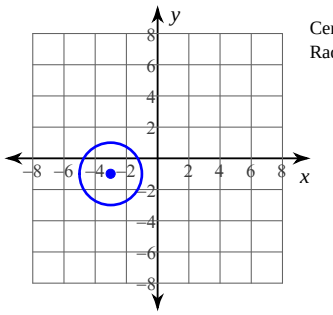
7) $(x-1)^2+(y-4)^2=4$

A)



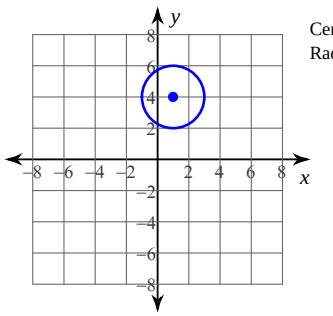
Center: $(-4,-1)$
Radius: 2

B)



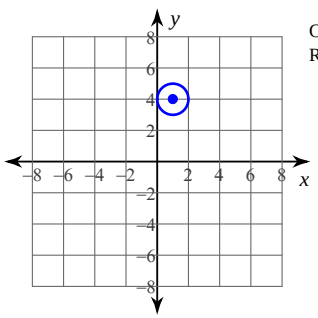
Center: $(-3,-1)$
Radius: 2

C)



Center: $(1,4)$
Radius: 2

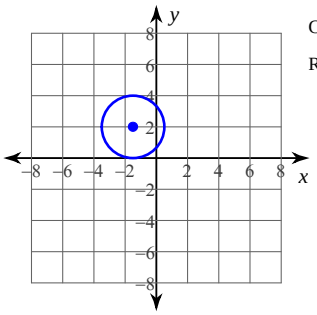
D)



Center: $(1,4)$
Radius: 1

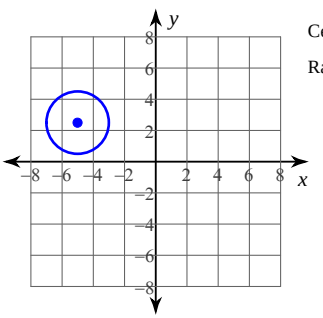
8) $\left(x-\frac{3}{2}\right)^2+(y-4)^2=4$

A)



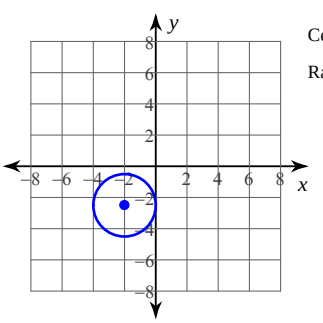
Center: $\left(-\frac{3}{2},2\right)$
Radius: 2

B)



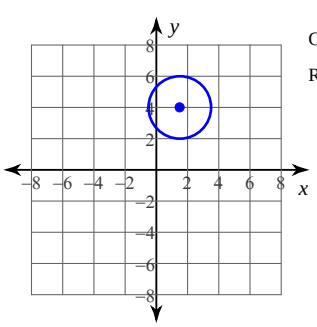
Center: $\left(-5,\frac{5}{2}\right)$
Radius: 2

C)



Center: $\left(-2,-\frac{5}{2}\right)$
Radius: 2

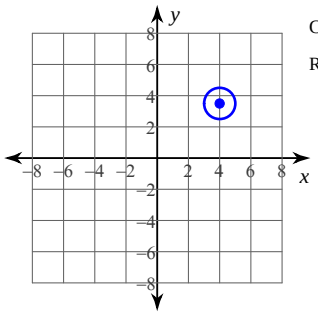
D)



Center: $\left(\frac{3}{2},4\right)$
Radius: 2

9) $(x+4)^2+\left(y-\frac{7}{2}\right)^2=1$

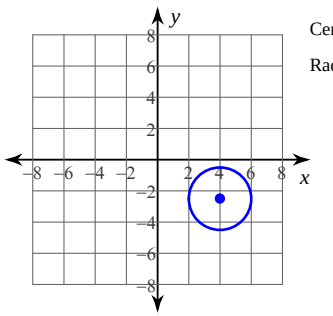
A)



Center: $\left(4,\frac{7}{2}\right)$

Radius: 1

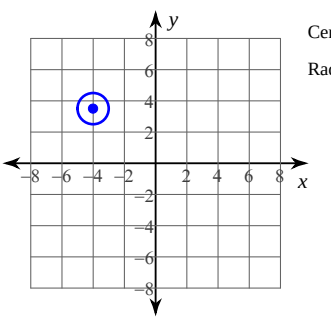
B)



Center: $\left(4,-\frac{5}{2}\right)$

Radius: 2

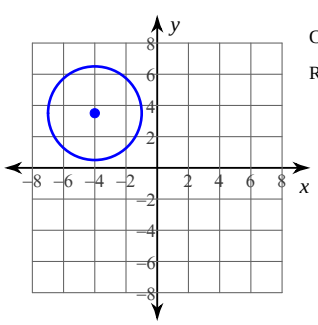
C)



Center: $\left(-4,\frac{7}{2}\right)$

Radius: 1

D)

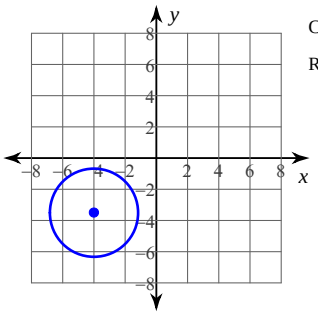


Center: $\left(-4,\frac{7}{2}\right)$

Radius: 3

10) $(x+4)^2+\left(y-\frac{7}{2}\right)^2=8$

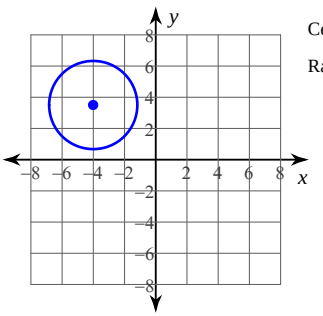
A)



Center: $\left(-4,-\frac{7}{2}\right)$

Radius: $2\sqrt{2}$

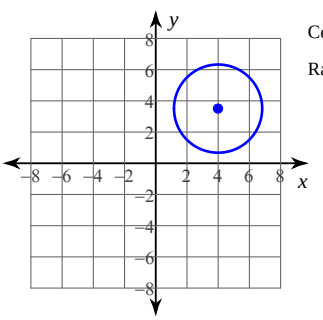
B)



Center: $\left(-4,\frac{7}{2}\right)$

Radius: $2\sqrt{2}$

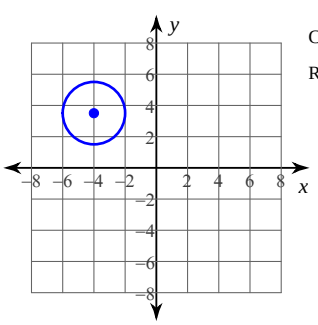
C)



Center: $\left(4,\frac{7}{2}\right)$

Radius: $2\sqrt{2}$

D)

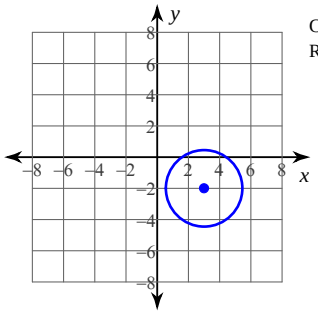


Center: $\left(-4,\frac{7}{2}\right)$

Radius: 2

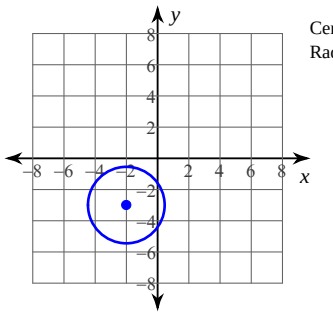
11) $(x+2)^2+(y+3)^2=6$

A)



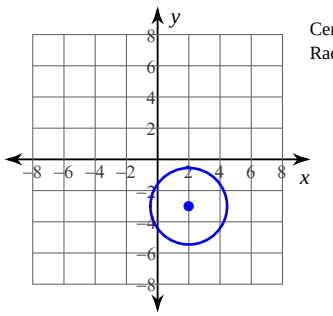
Center: $(3,-2)$
Radius: $\sqrt{6}$

B)



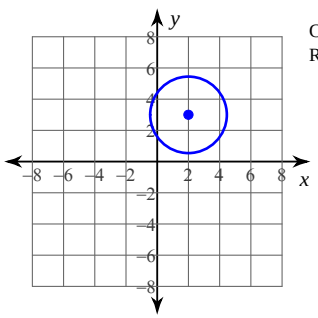
Center: $(-2,-3)$
Radius: $\sqrt{6}$

C)



Center: $(2,-3)$
Radius: $\sqrt{6}$

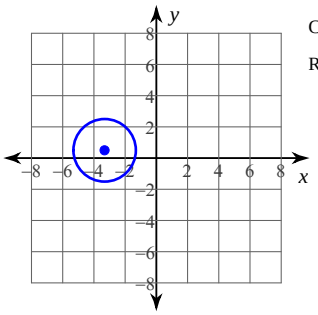
D)



Center: $(2,3)$
Radius: $\sqrt{6}$

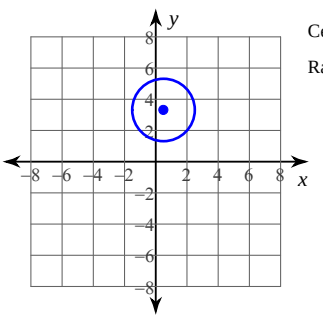
12) $\left(x-\frac{1}{2}\right)^2+\left(y-\sqrt{11}\right)^2=4$

A)



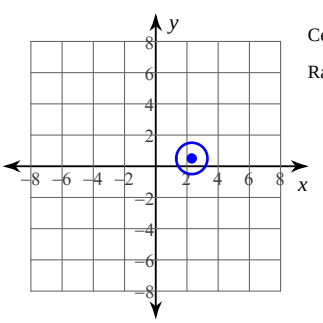
Center: $\left(-\sqrt{11},\frac{1}{2}\right)$
Radius: 2

B)



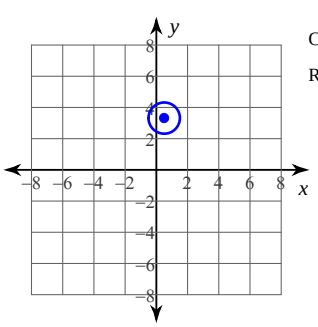
Center: $\left(\frac{1}{2},\sqrt{11}\right)$
Radius: 2

C)



Center: $\left(\sqrt{11}-1,\frac{1}{2}\right)$
Radius: 1

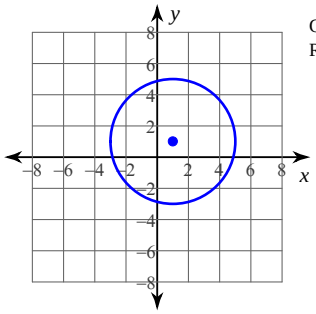
D)



Center: $\left(\frac{1}{2},\sqrt{11}\right)$
Radius: 1

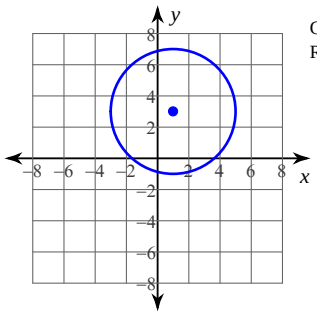
13) $(x+1)^2+(y+1)^2=16$

A)



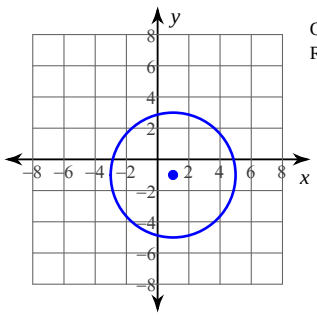
Center: (1, 1)
Radius: 4

B)



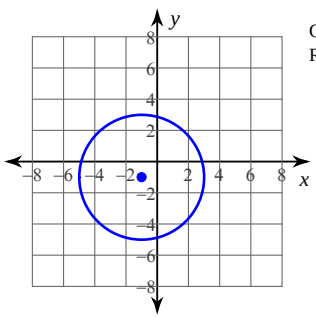
Center: (1, 3)
Radius: 4

C)



Center: (1, –1)
Radius: 4

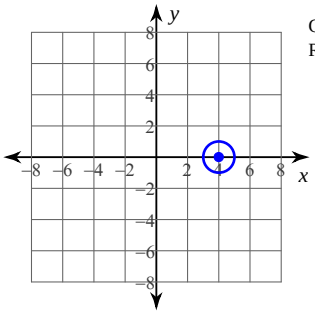
D)



Center: (–1, –1)
Radius: 4

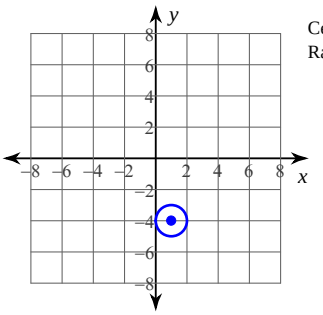
14) $(x+1)^2+(y-4)^2=1$

A)



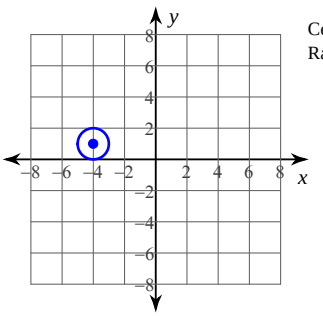
Center: (4, 0)
Radius: 1

B)



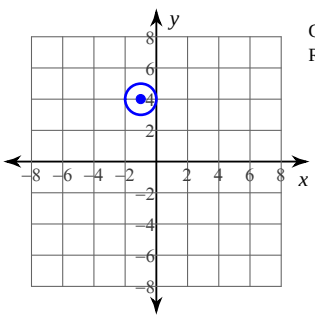
Center: (1, –4)
Radius: 1

C)



Center: (–4, 1)
Radius: 1

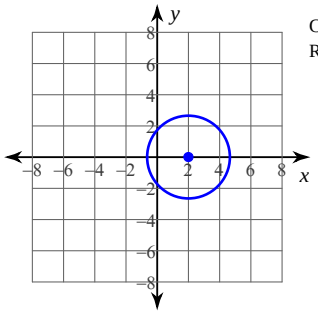
D)



Center: (–1, 4)
Radius: 1

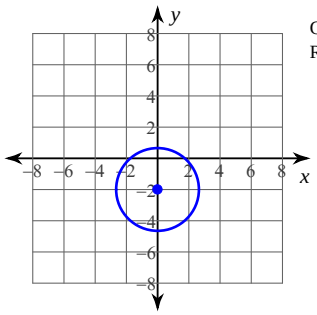
15) $(x+2)^2 + y^2 = 7$

A)



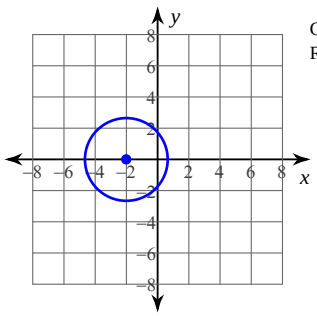
Center: $(2, 0)$
Radius: $\sqrt{7}$

B)



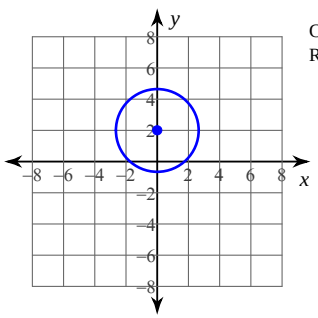
Center: $(0, -2)$
Radius: $\sqrt{7}$

C)



Center: $(-2, 0)$
Radius: $\sqrt{7}$

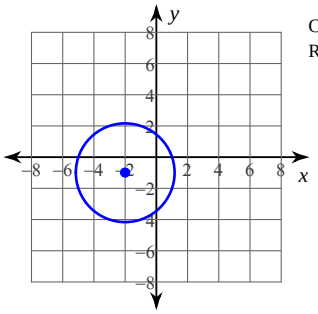
D)



Center: $(0, 2)$
Radius: $\sqrt{7}$

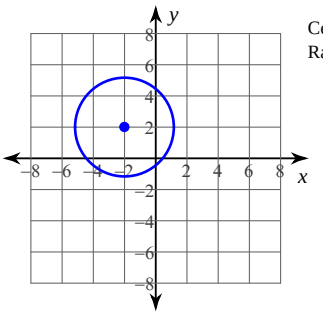
16) $(x+2)^2 + (y-2)^2 = 10$

A)



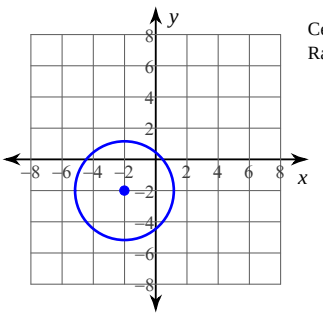
Center: $(-2, -1)$
Radius: $\sqrt{10}$

B)



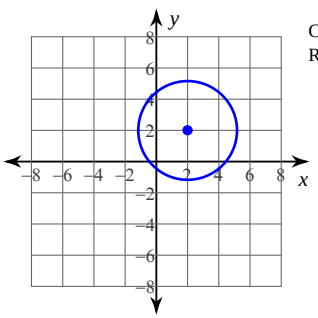
Center: $(-2, 2)$
Radius: $\sqrt{10}$

C)



Center: $(-2, -2)$
Radius: $\sqrt{10}$

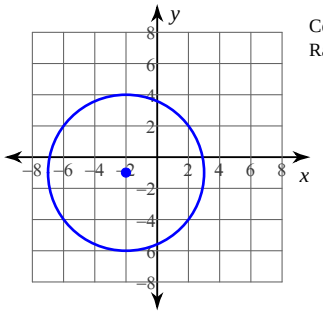
D)



Center: $(2, 2)$
Radius: $\sqrt{10}$

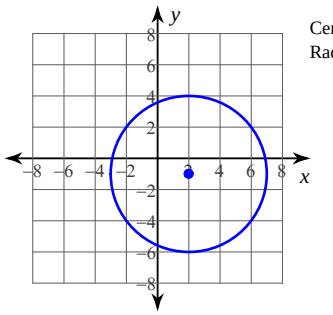
17) $(x+2)^2+(y+1)^2=25$

A)



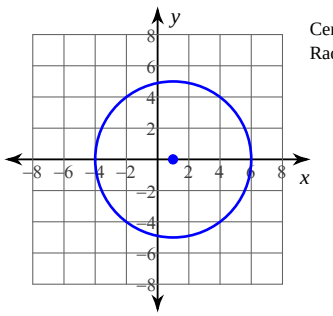
Center: $(-2, -1)$
Radius: 5

B)



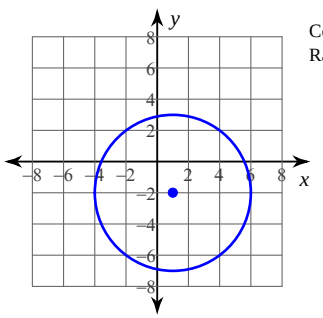
Center: $(2, -1)$
Radius: 5

C)



Center: $(1, 0)$
Radius: 5

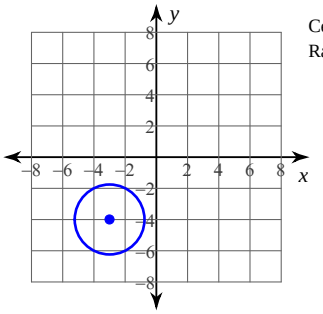
D)



Center: $(1, -2)$
Radius: 5

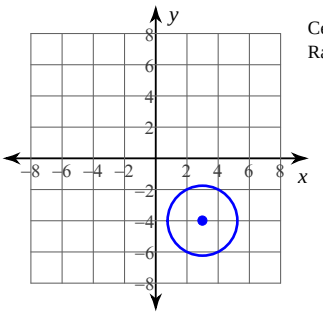
18) $(x+3)^2+(y+4)^2=5$

A)



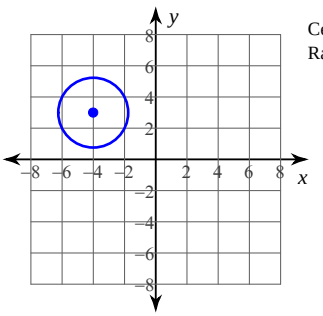
Center: $(-3, -4)$
Radius: $\sqrt{5}$

B)



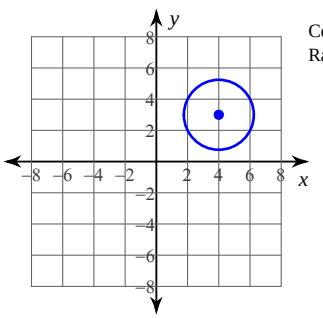
Center: $(3, -4)$
Radius: $\sqrt{5}$

C)



Center: $(-4, 3)$
Radius: $\sqrt{5}$

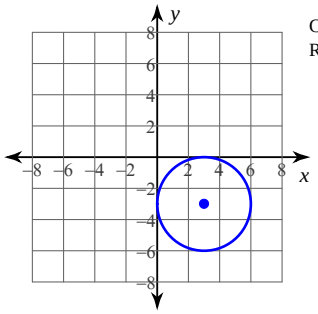
D)



Center: $(4, 3)$
Radius: $\sqrt{5}$

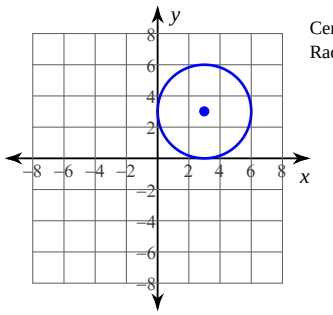
19) $(x+3)^2+(y-3)^2=9$

A)



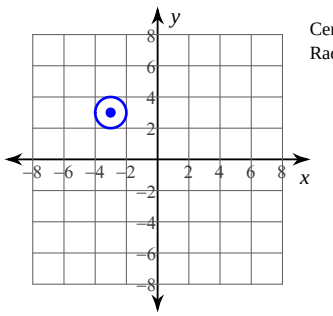
Center: (3, –3)
Radius: 3

B)



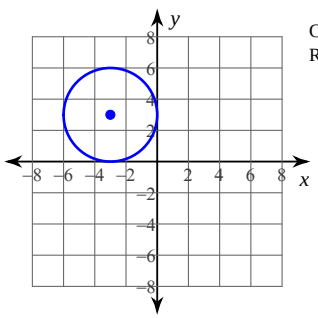
Center: (3, 3)
Radius: 3

C)



Center: (–3, 3)
Radius: 1

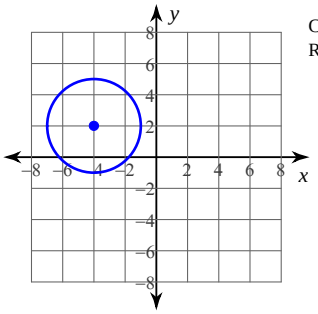
D)



Center: (–3, 3)
Radius: 3

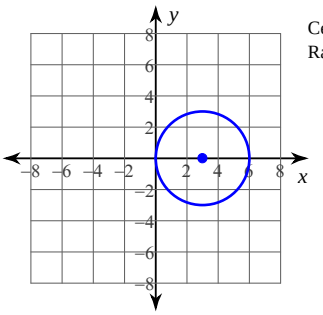
20) $(x+3)^2+y^2=9$

A)



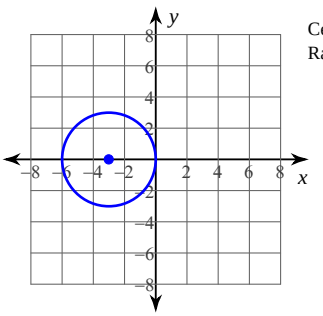
Center: (–4, 2)
Radius: 3

B)



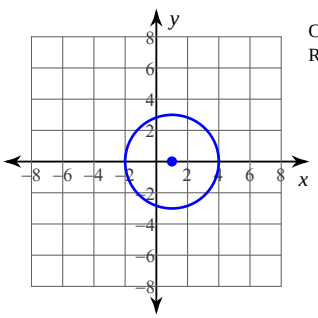
Center: (3, 0)
Radius: 3

C)



Center: (–3, 0)
Radius: 3

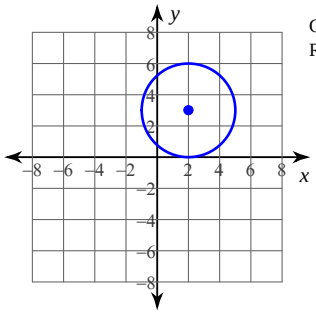
D)



Center: (1, 0)
Radius: 3

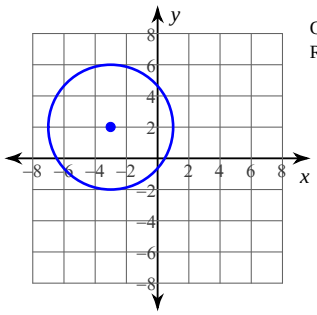
21) $(x+3)^2+(y-2)^2=16$

A)



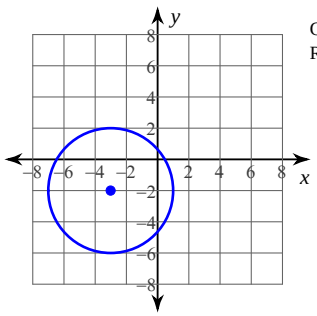
Center: (2, 3)
Radius: 3

B)



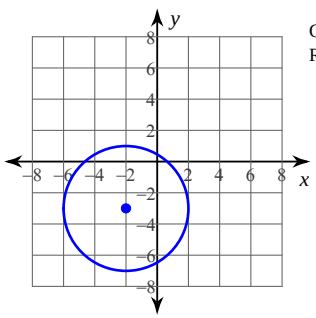
Center: (–3, 2)
Radius: 4

C)



Center: (–3, –2)
Radius: 4

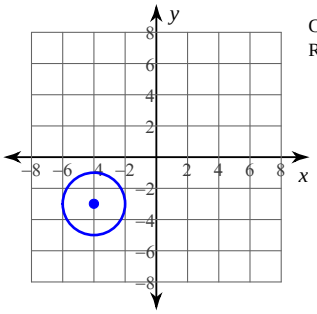
D)



Center: (–2, –3)
Radius: 4

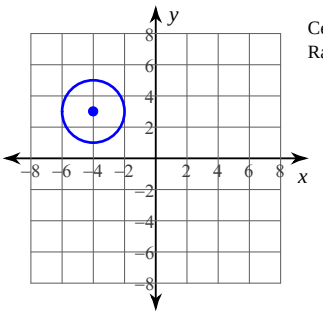
22) $(x+4)^2+(y+3)^2=4$

A)



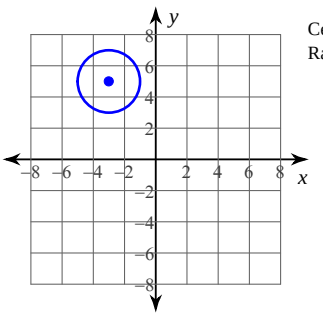
Center: (–4, –3)
Radius: 2

B)



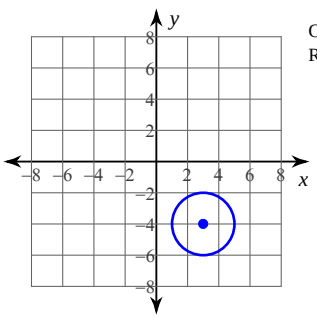
Center: (–4, 3)
Radius: 2

C)



Center: (–3, 5)
Radius: 2

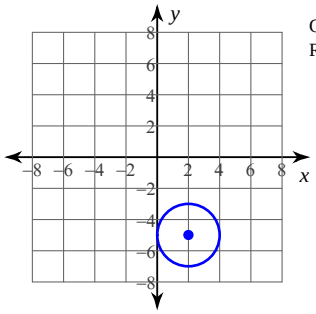
D)



Center: (3, –4)
Radius: 2

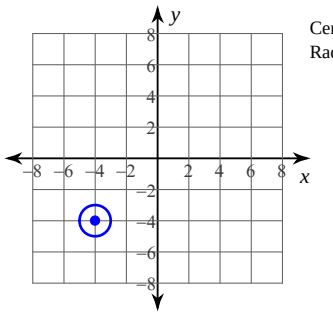
23) $(x+4)^2+(y+4)^2=1$

A)



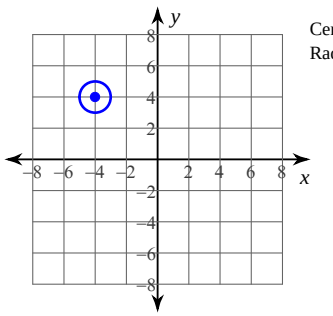
Center: (2, –5)
Radius: 2

B)



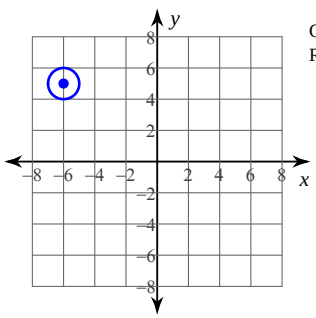
Center: (–4, –4)
Radius: 1

C)



Center: (–4, 4)
Radius: 1

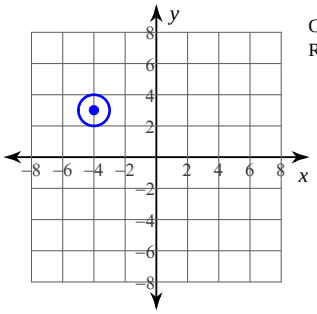
D)



Center: (–6, 5)
Radius: 1

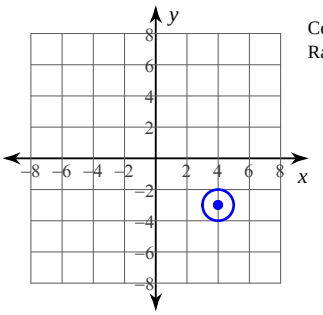
24) $(x-4)^2+(y-3)^2=1$

A)



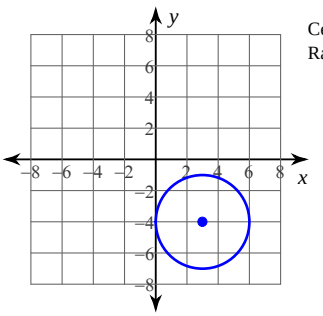
Center: (–4, 3)
Radius: 1

B)



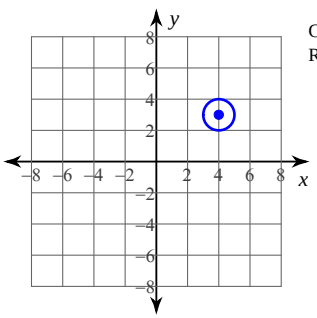
Center: (4, –3)
Radius: 1

C)



Center: (3, –4)
Radius: 3

D)



Center: (4, 3)
Radius: 1

Answers to Assignment (ID: 7)

1) C
2) D
3) C
4) D
5) B
6) B
7) C
8) D
9) C
10) B
11) B
12) B
13) D
14) D
15) C
16) B
17) A
18) A
19) D
20) C
21) B
22) A
23) B
24) D

Geometry Name_____

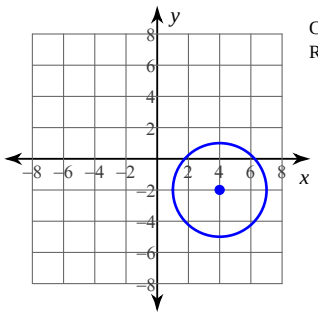
Assignment

Date_____ Period____

Identify the center and radius of each. Then sketch the graph.

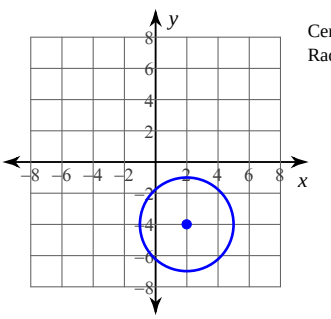
1) $(x-4)^2+(y+2)^2=9$

A)



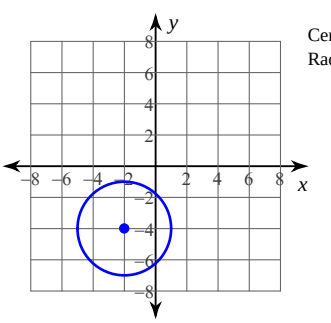
Center: (4, –2)
Radius: 3

B)



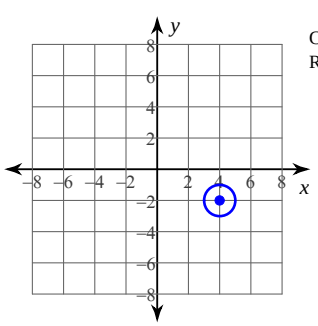
Center: (2, –4)
Radius: 3

C)



Center: (–2, –4)
Radius: 3

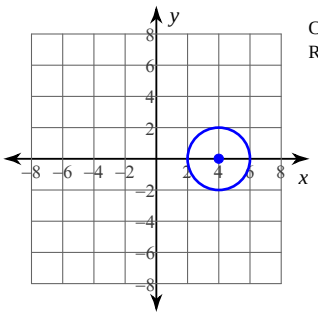
D)



Center: (4, –2)
Radius: 1

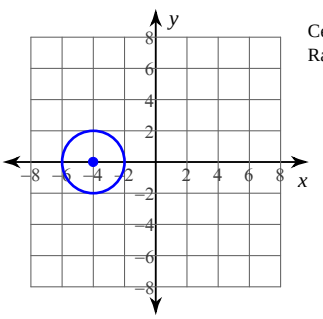
2) $(x-4)^2+y^2=4$

A)



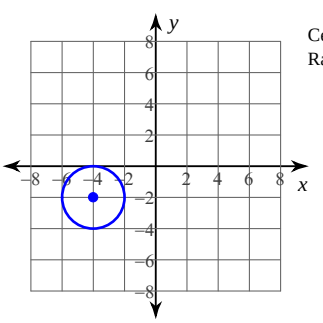
Center: (4, 0)
Radius: 2

B)



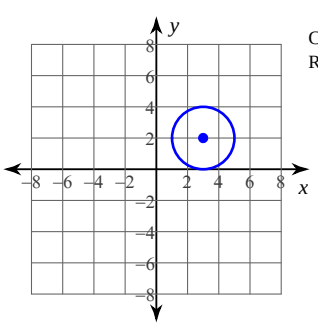
Center: (–4, 0)
Radius: 2

C)



Center: (–4, –2)
Radius: 2

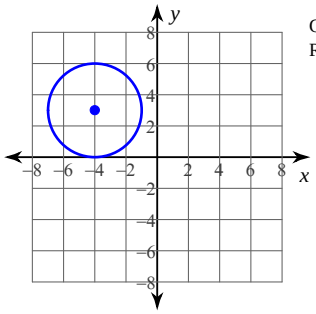
D)



Center: (3, 2)
Radius: 2

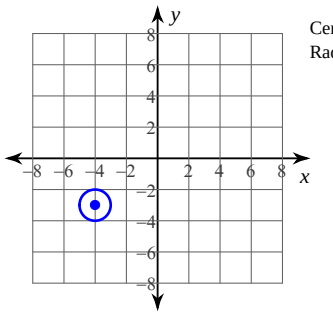
3) $(x-4)^2+(y+3)^2=1$

A)



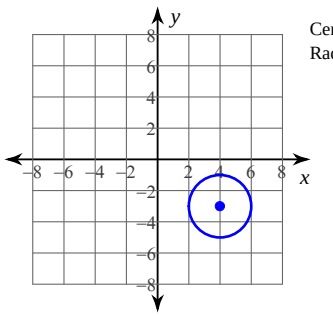
Center: (–4, 3)
Radius: 3

B)



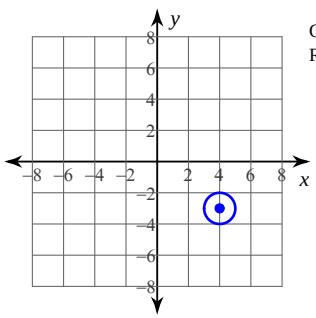
Center: (–4, –3)
Radius: 1

C)



Center: (4, –3)
Radius: 2

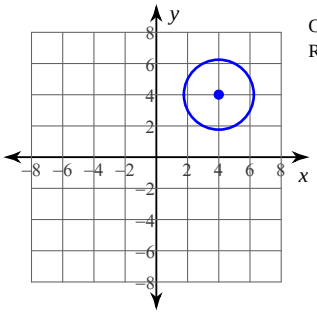
D)



Center: (4, –3)
Radius: 1

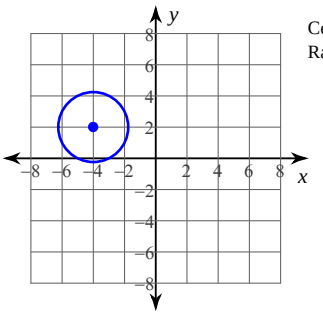
4) $(x-4)^2+(y-4)^2=5$

A)



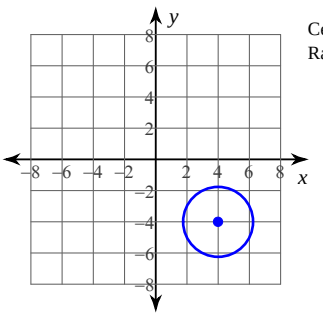
Center: (4, 4)
Radius: $\sqrt{5}$

B)



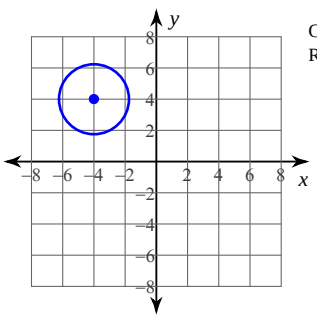
Center: (–4, 2)
Radius: $\sqrt{5}$

C)



Center: (4, –4)
Radius: $\sqrt{5}$

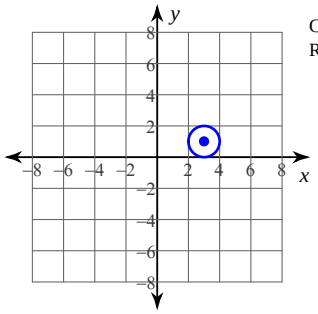
D)



Center: (–4, 4)
Radius: $\sqrt{5}$

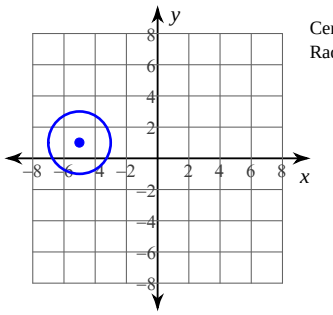
5) $(x-3)^2+(y-1)^2=1$

A)



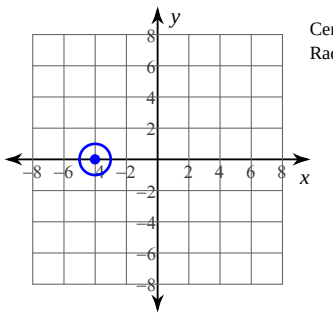
Center: (3, 1)
Radius: 1

B)



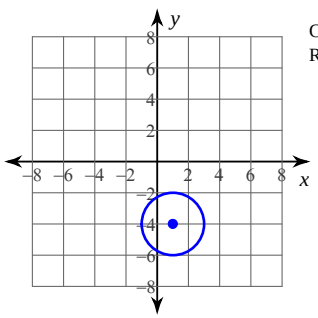
Center: (−5, 1)
Radius: 2

C)



Center: (−4, 0)
Radius: 1

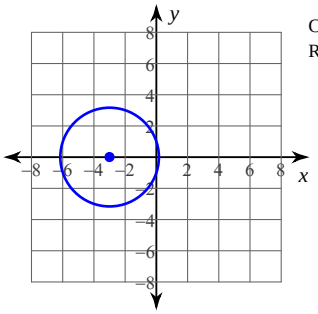
D)



Center: (1, −4)
Radius: 2

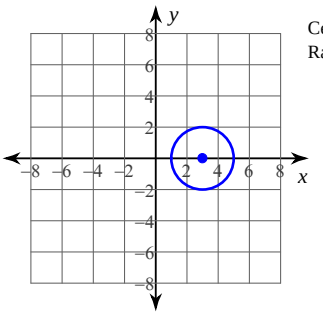
6) $(x-3)^2+y^2=10$

A)



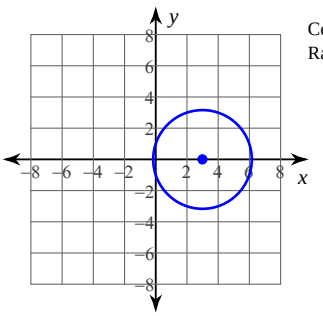
Center: $(-3, 0)$
Radius: $\sqrt{10}$

B)



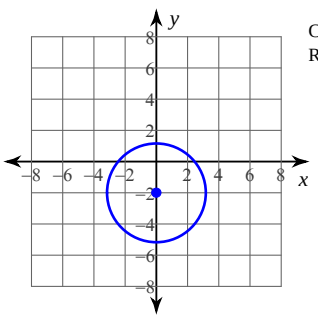
Center: (3, 0)
Radius: 2

C)



Center: $(3, 0)$
Radius: $\sqrt{10}$

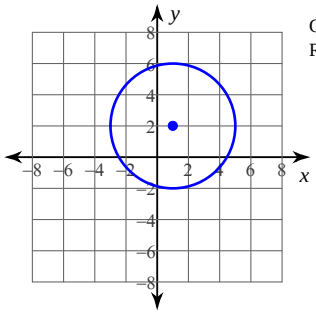
D)



Center: $(0, -2)$
Radius: $\sqrt{10}$

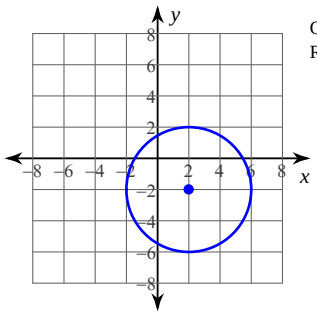
7) $(x-2)^2+(y+2)^2=16$

A)



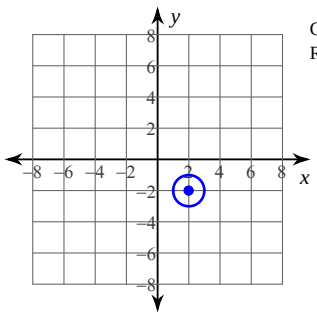
Center: (1, 2)
Radius: 4

B)



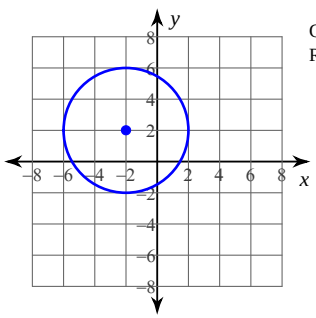
Center: (2, –2)
Radius: 4

C)



Center: (2, –2)
Radius: 1

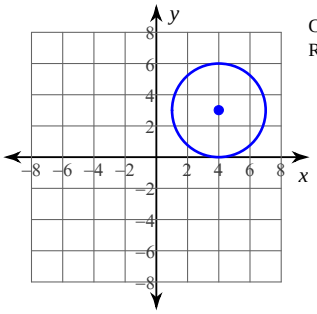
D)



Center: (–2, 2)
Radius: 4

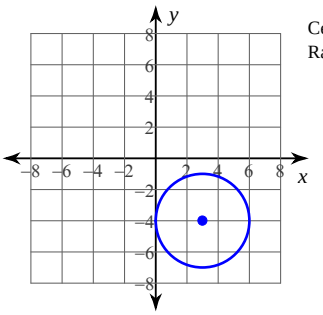
8) $(x-3)^2+(y+4)^2=9$

A)



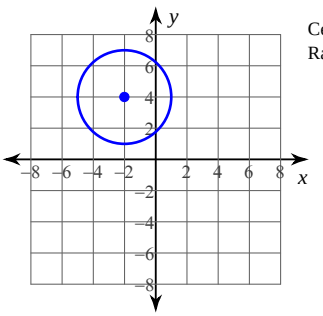
Center: (4, 3)
Radius: 3

B)



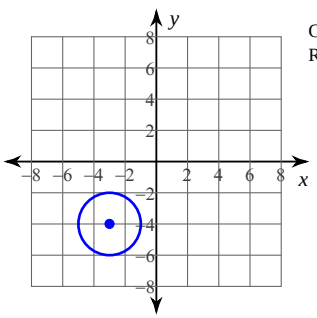
Center: (3, –4)
Radius: 3

C)



Center: (–2, 4)
Radius: 3

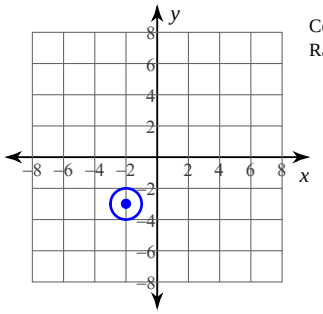
D)



Center: (–3, –4)
Radius: 2

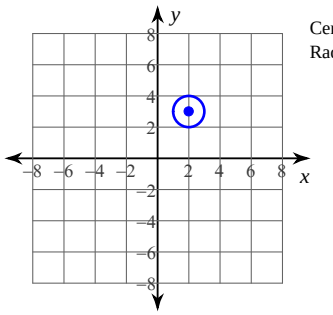
9) $(x-2)^2+(y-3)^2=1$

A)



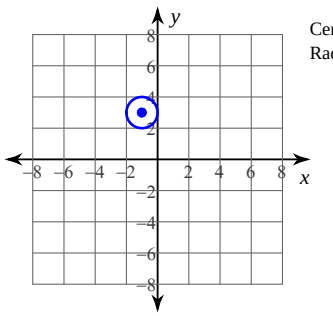
Center: (–2, –3)
Radius: 1

B)



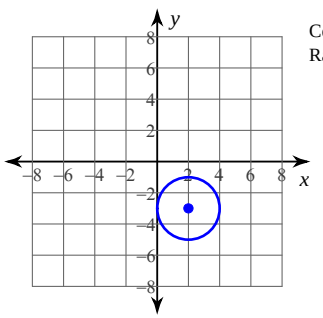
Center: (2, 3)
Radius: 1

C)



Center: (–1, 3)
Radius: 1

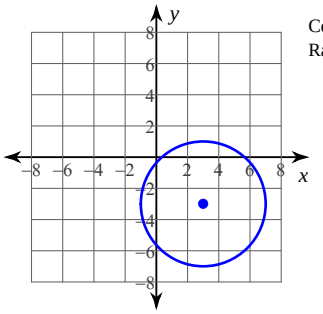
D)



Center: (2, –3)
Radius: 2

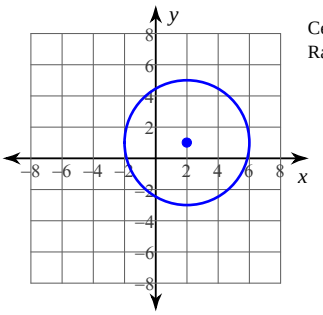
10) $(x-2)^2+(y-1)^2=16$

A)



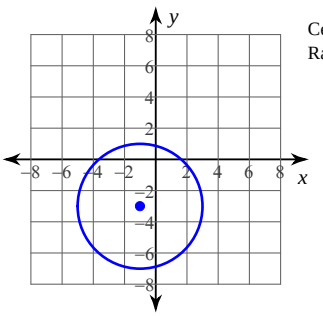
Center: (3, –3)
Radius: 4

B)



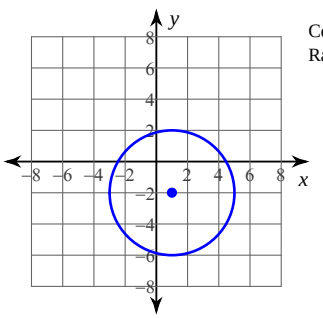
Center: (2, 1)
Radius: 4

C)



Center: (–1, –3)
Radius: 4

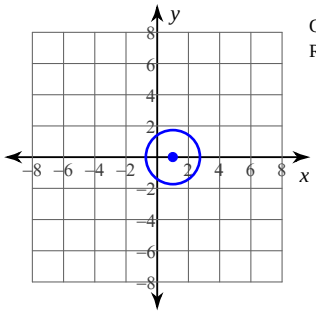
D)



Center: (1, –2)
Radius: 4

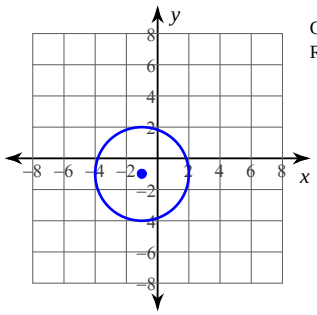
11) $(x-1)^2+(y+1)^2=3$

A)



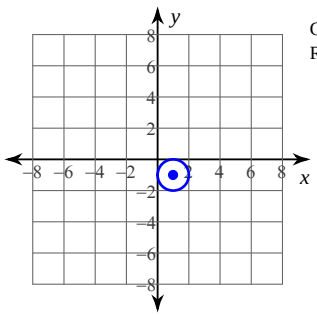
Center: $(1, 0)$
Radius: $\sqrt{3}$

B)



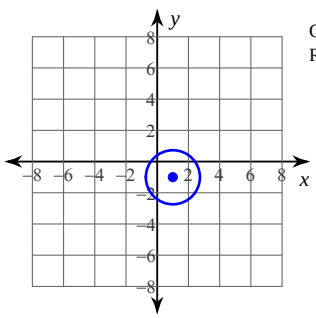
Center: $(-1, -1)$
Radius: 3

C)



Center: $(1, -1)$
Radius: 1

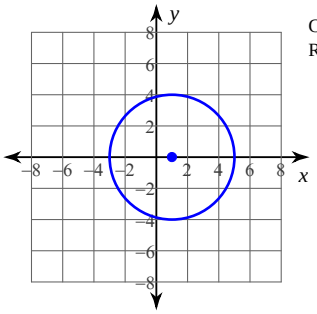
D)



Center: $(1, -1)$
Radius: $\sqrt{3}$

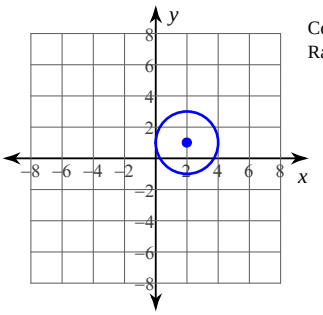
12) $(x-1)^2+(y+2)^2=16$

A)



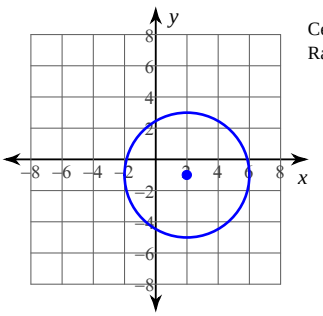
Center: $(1, 0)$
Radius: 4

B)



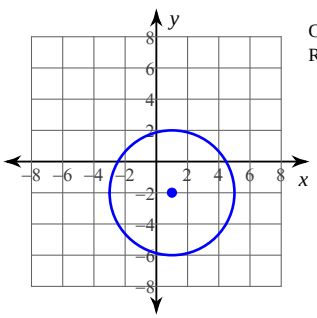
Center: $(2, 1)$
Radius: 2

C)



Center: $(2, -1)$
Radius: 4

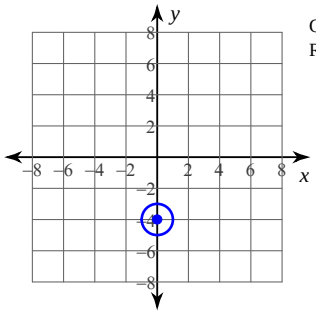
D)



Center: $(1, -2)$
Radius: 4

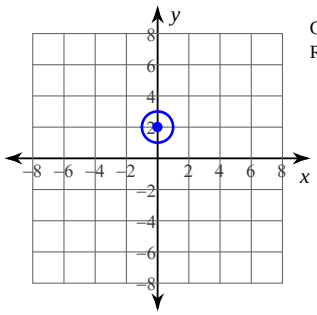
13) $x^2 + (y-4)^2 = 1$

A)



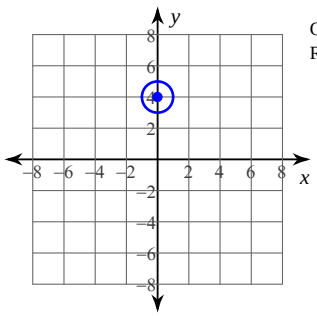
Center: (0, –4)
Radius: 1

B)



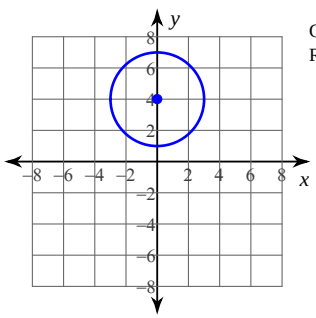
Center: (0, 2)
Radius: 1

C)



Center: (0, 4)
Radius: 1

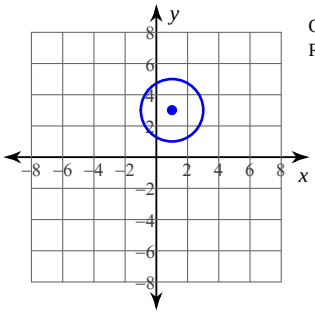
D)



Center: (0, 4)
Radius: 3

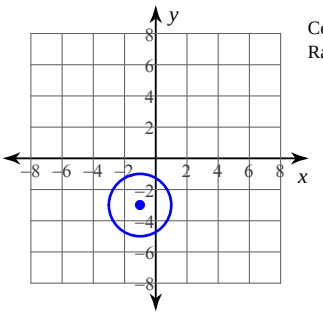
14) $(x-1)^2 + (y-3)^2 = 4$

A)



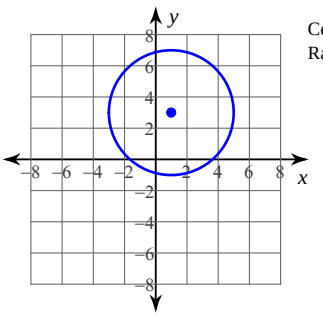
Center: (1, 3)
Radius: 2

B)



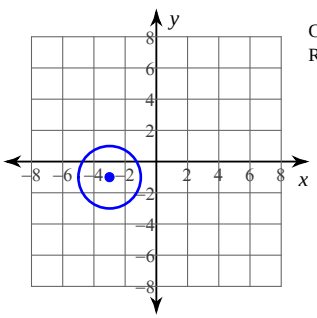
Center: (–1, –3)
Radius: 2

C)



Center: (1, 3)
Radius: 4

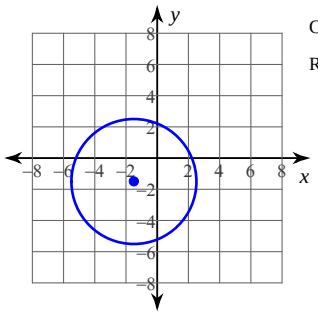
D)



Center: (–3, –1)
Radius: 2

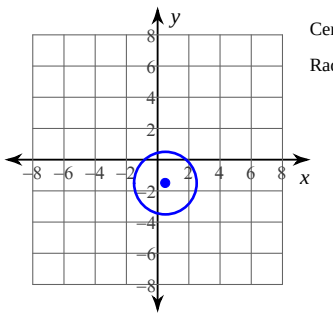
15) $\left(x-\frac{1}{2}\right)^2+\left(y+\frac{3}{2}\right)^2=16$

A)



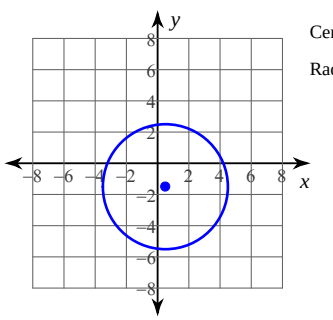
Center: $\left(-\frac{3}{2},-\frac{3}{2}\right)$
Radius: 4

B)



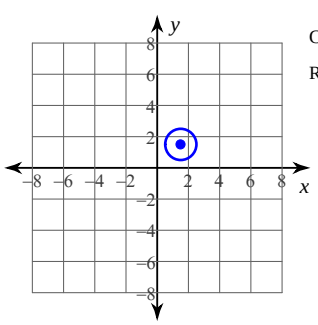
Center: $\left(\frac{1}{2},-\frac{3}{2}\right)$
Radius: 2

C)



Center: $\left(\frac{1}{2},-\frac{3}{2}\right)$
Radius: 4

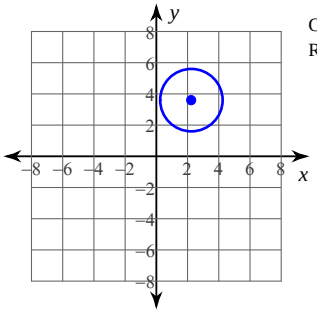
D)



Center: $\left(\frac{3}{2},\frac{3}{2}\right)$
Radius: 1

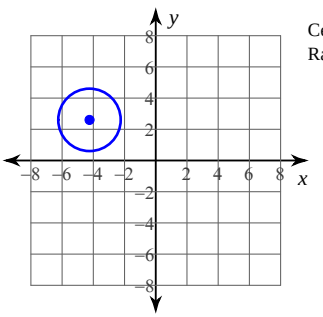
16) $\left(x-\sqrt{5}\right)^2+\left(y-\sqrt{13}\right)^2=4$

A)



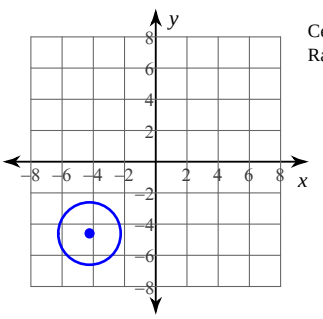
Center: $\left(\sqrt{5},\sqrt{13}\right)$
Radius: 2

B)



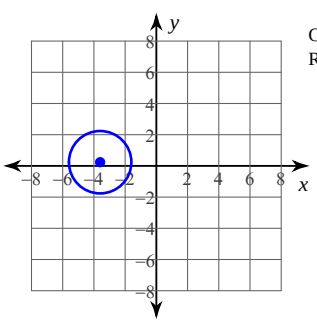
Center: $\left(-\sqrt{5}-2,\sqrt{13}-1\right)$
Radius: 2

C)



Center: $\left(-\sqrt{5}-2,-\sqrt{13}-1\right)$
Radius: 2

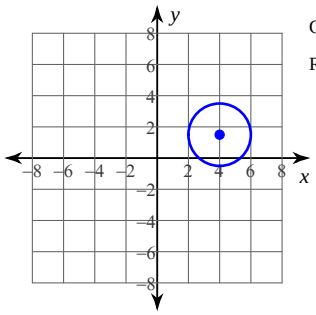
D)



Center: $\left(-\sqrt{13},\sqrt{5}-2\right)$
Radius: 2

17) $(x+4)^2+\left(y+\frac{3}{2}\right)^2=1$

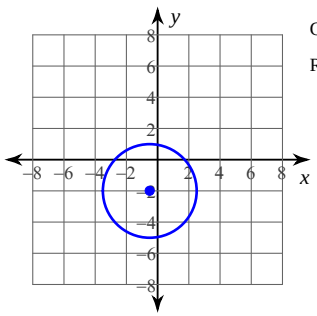
A)



Center: $\left(4,\frac{3}{2}\right)$

Radius: 2

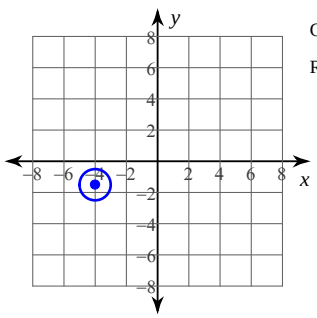
B)



Center: $\left(-\frac{1}{2},-2\right)$

Radius: 3

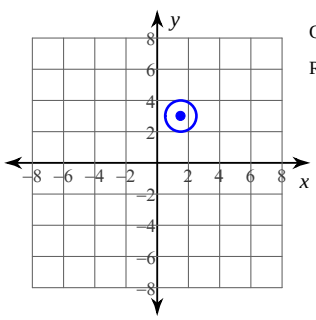
C)



Center: $\left(-4,-\frac{3}{2}\right)$

Radius: 1

D)

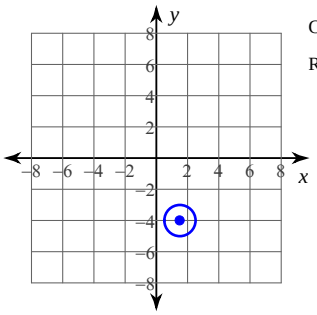


Center: $\left(\frac{3}{2},3\right)$

Radius: 1

18) $(x-4)^2+\left(y+\frac{3}{2}\right)^2=8$

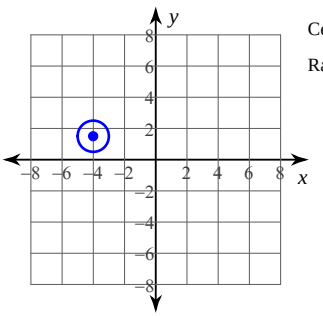
A)



Center: $\left(\frac{3}{2},-4\right)$

Radius: 1

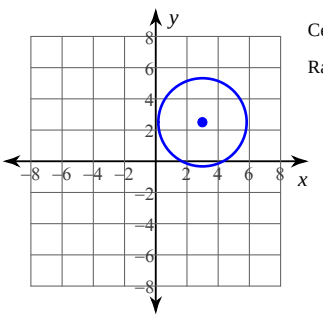
B)



Center: $\left(-4,\frac{3}{2}\right)$

Radius: 1

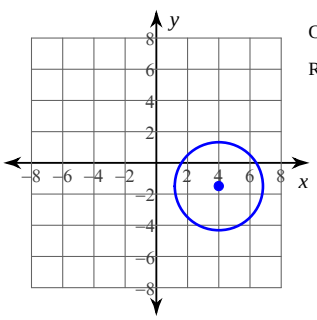
C)



Center: $\left(3,\frac{5}{2}\right)$

Radius: $2\sqrt{2}$

D)

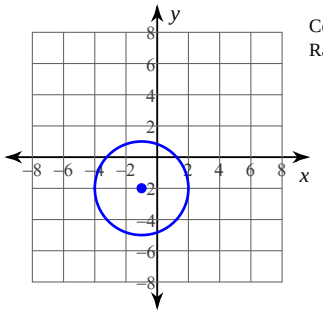


Center: $\left(4,-\frac{3}{2}\right)$

Radius: $2\sqrt{2}$

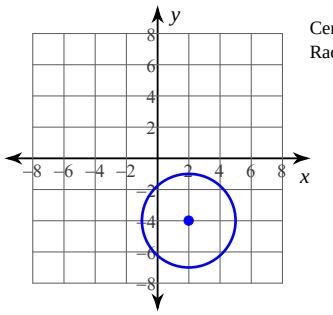
19) $(x+1)^2+(y-2)^2=9$

A)



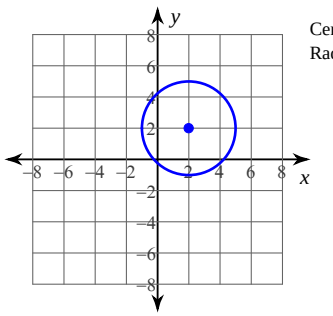
Center: (–1, –2)
Radius: 3

B)



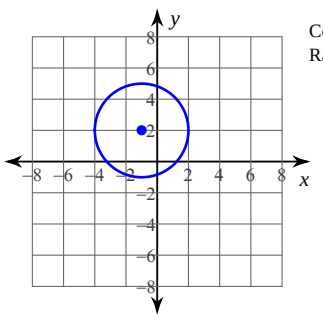
Center: (2, –4)
Radius: 3

C)



Center: (2, 2)
Radius: 3

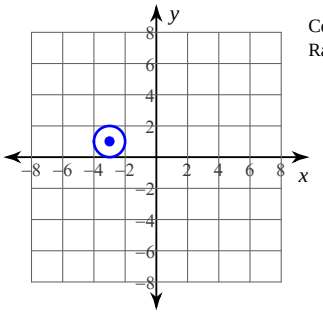
D)



Center: (–1, 2)
Radius: 3

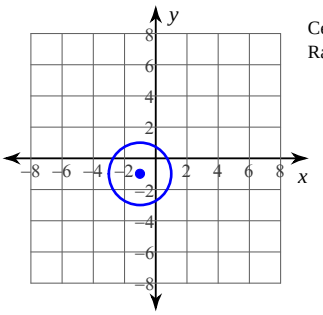
20) $(x+1)^2+(y+1)^2=4$

A)



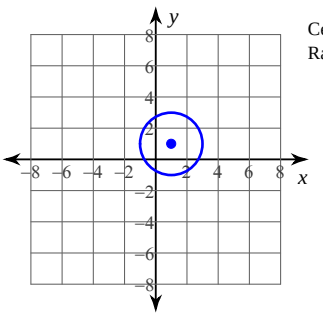
Center: (–3, 1)
Radius: 1

B)



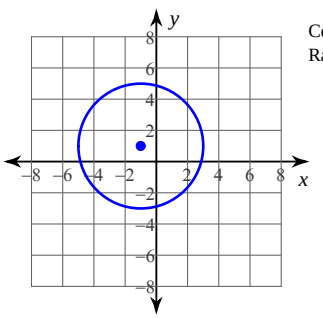
Center: (–1, –1)
Radius: 2

C)



Center: (1, 1)
Radius: 2

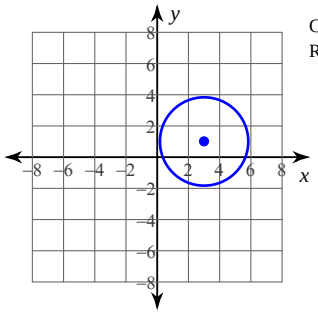
D)



Center: (–1, 1)
Radius: 4

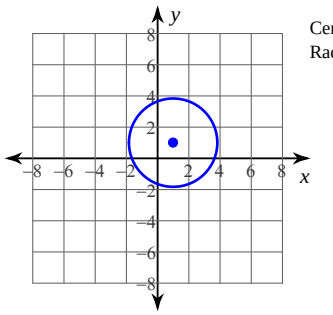
21) $(x+1)^2+(y+3)^2=8$

A)



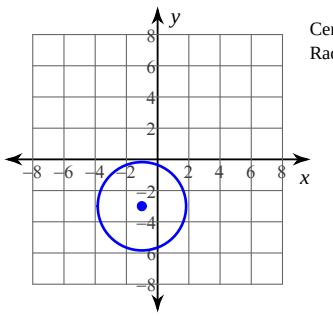
Center: (3, 1)
Radius: $2\sqrt{2}$

B)



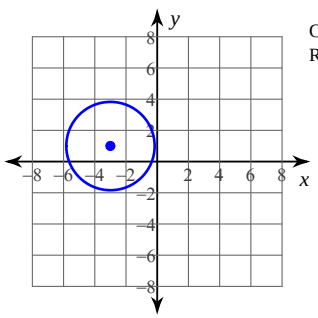
Center: (1, 1)
Radius: $2\sqrt{2}$

C)



Center: (−1, −3)
Radius: $2\sqrt{2}$

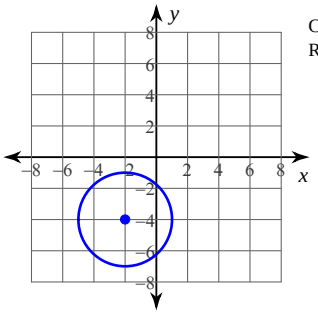
D)



Center: (−3, 1)
Radius: $2\sqrt{2}$

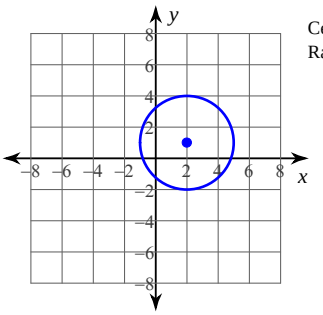
22) $(x+2)^2+(y+4)^2=9$

A)



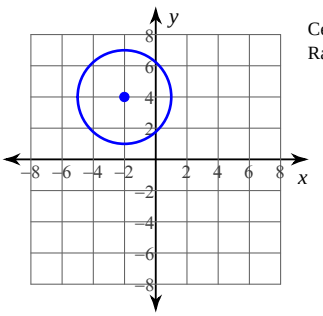
Center: (−2, −4)
Radius: 3

B)



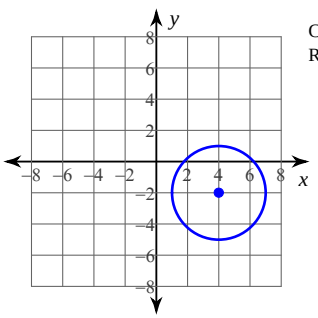
Center: (2, 1)
Radius: 3

C)



Center: (−2, 4)
Radius: 3

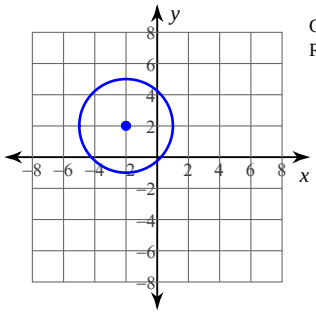
D)



Center: (4, −2)
Radius: 3

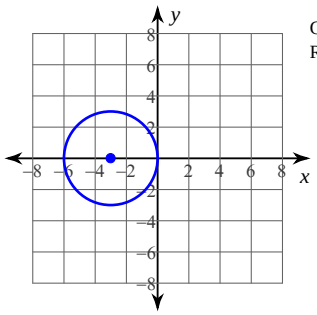
23) $(x+3)^2 + y^2 = 9$

A)



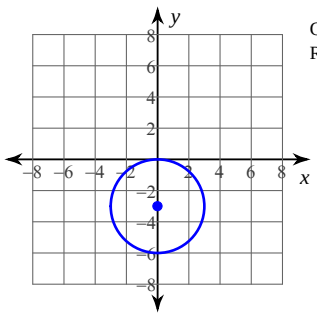
Center: $(-2, 2)$
Radius: 3

B)



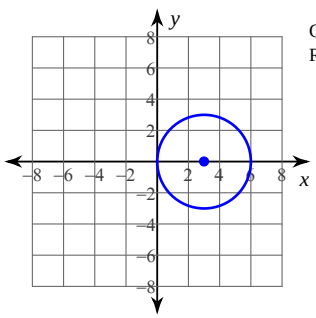
Center: $(-3, 0)$
Radius: 3

C)



Center: $(0, -3)$
Radius: 3

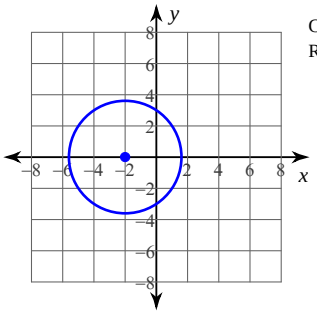
D)



Center: $(3, 0)$
Radius: 3

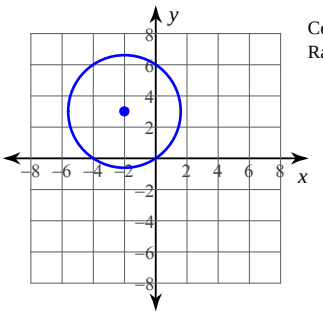
24) $(x+2)^2 + (y-3)^2 = 13$

A)



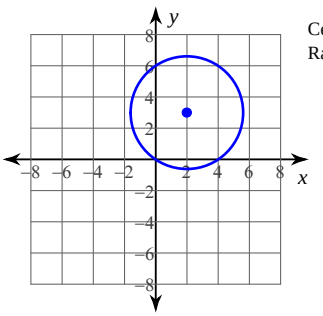
Center: $(-2, 0)$
Radius: $\sqrt{13}$

B)



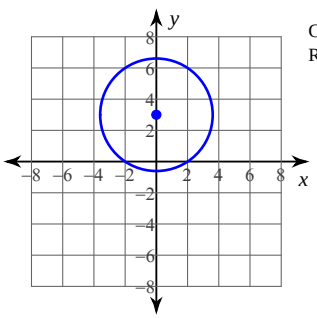
Center: $(-2, 3)$
Radius: $\sqrt{13}$

C)



Center: $(2, 3)$
Radius: $\sqrt{13}$

D)



Center: $(0, 3)$
Radius: $\sqrt{13}$

Answers to Assignment (ID: 8)

1) A
2) A
3) D
4) A
5) A
6) C
7) B
8) B
9) B
10) B
11) D
12) D
13) C
14) A
15) C
16) A
17) C
18) D
19) D
20) B
21) C
22) A
23) B
24) B

Geometry Name_____

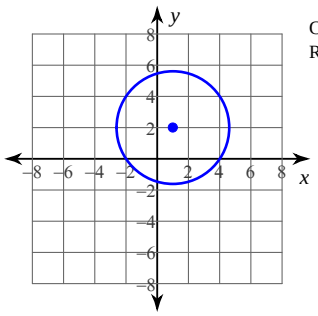
Assignment

Date_____ Period____

Identify the center and radius of each. Then sketch the graph.

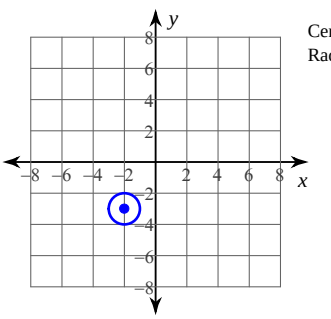
1) $(x+2)^2+(y+3)^2=13$

A)



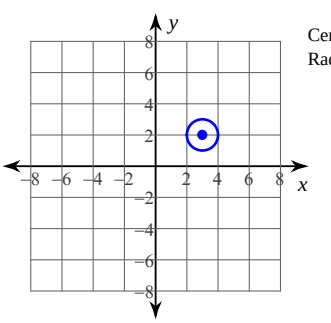
Center: $(1, 2)$
Radius: $\sqrt{13}$

B)



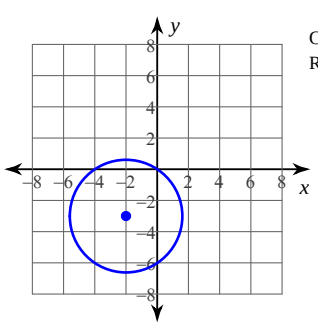
Center: $(-2, -3)$
Radius: 1

C)



Center: $(3, 2)$
Radius: 1

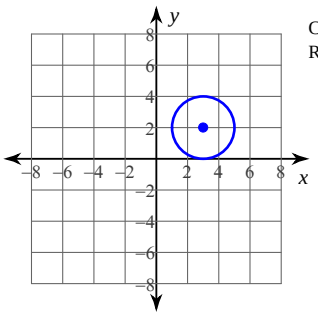
D)



Center: $(-2, -3)$
Radius: $\sqrt{13}$

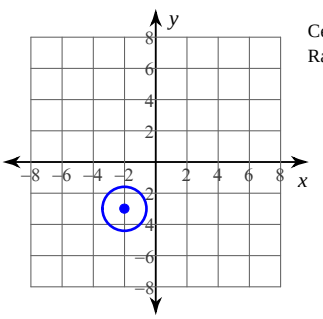
2) $(x+3)^2+(y-2)^2=2$

A)



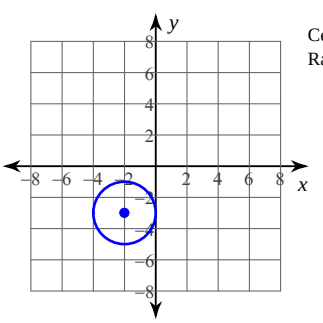
Center: $(3, 2)$
Radius: 2

B)



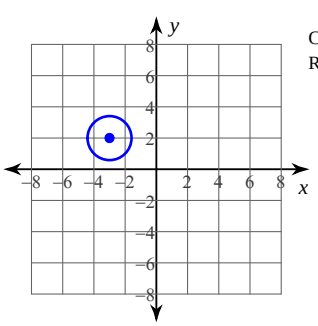
Center: $(-2, -3)$
Radius: $\sqrt{2}$

C)



Center: $(-2, -3)$
Radius: 2

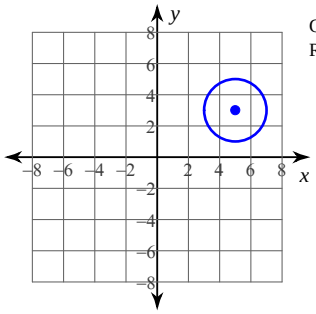
D)



Center: $(-3, 2)$
Radius: $\sqrt{2}$

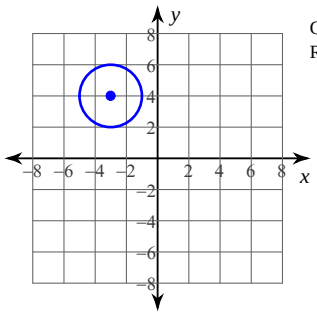
3) $(x+3)^2+(y-4)^2=4$

A)



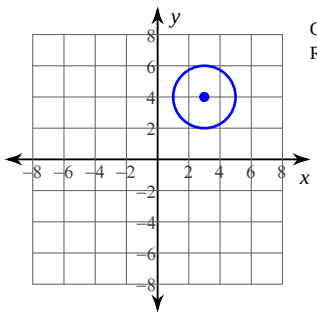
Center: (5, 3)
Radius: 2

B)



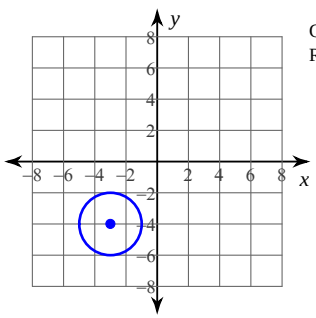
Center: (–3, 4)
Radius: 2

C)



Center: (3, 4)
Radius: 2

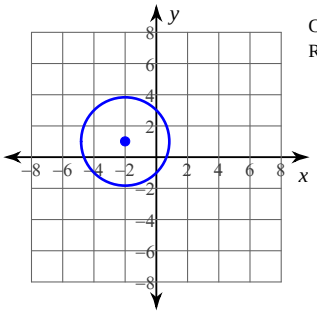
D)



Center: (–3, –4)
Radius: 2

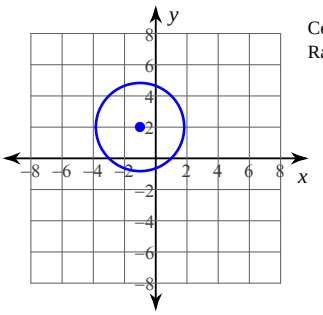
4) $(x+2)^2+(y+1)^2=8$

A)



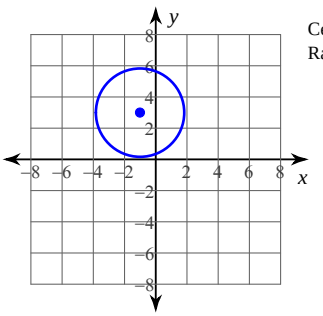
Center: (–2, 1)
Radius: $2\sqrt{2}$

B)



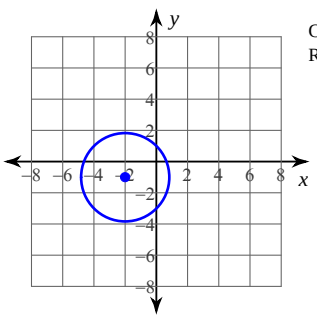
Center: (–1, 2)
Radius: $2\sqrt{2}$

C)



Center: (–1, 3)
Radius: $2\sqrt{2}$

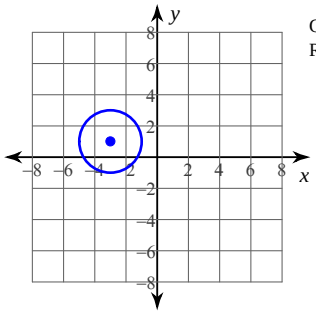
D)



Center: (–2, –1)
Radius: $2\sqrt{2}$

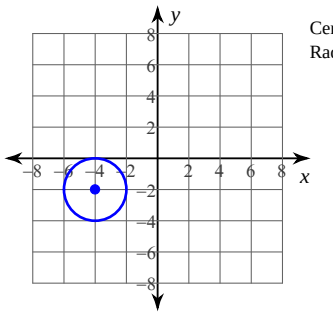
5) $(x+4)^2+(y+2)^2=1$

A)



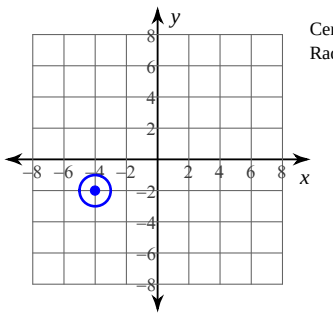
Center: (–3, 1)
Radius: 2

B)



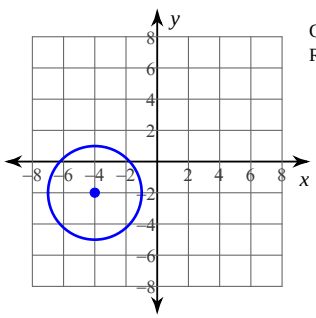
Center: (–4, –2)
Radius: 2

C)



Center: (–4, –2)
Radius: 1

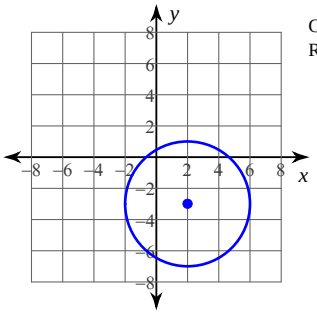
D)



Center: (–4, –2)
Radius: 3

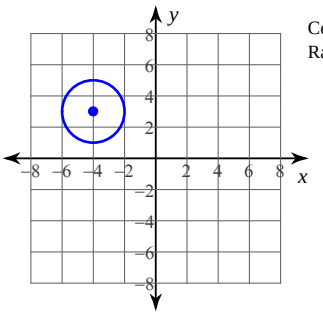
6) $(x+4)^2+(y+3)^2=4$

A)



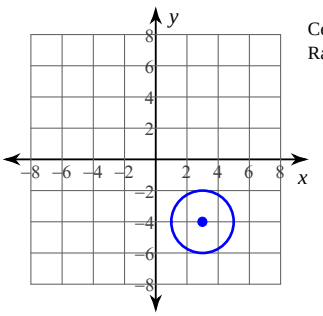
Center: (2, –3)
Radius: 4

B)



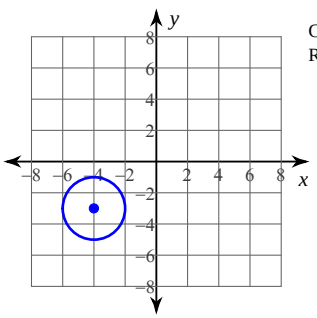
Center: (–4, 3)
Radius: 2

C)



Center: (3, –4)
Radius: 2

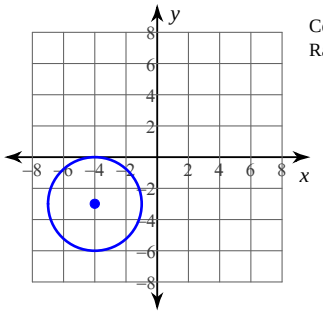
D)



Center: (–4, –3)
Radius: 2

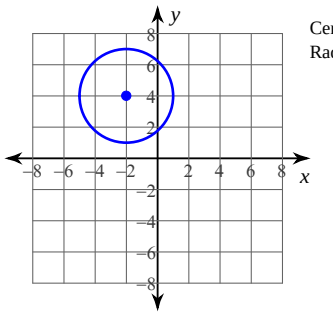
7) $(x+4)^2+(y-3)^2=9$

A)



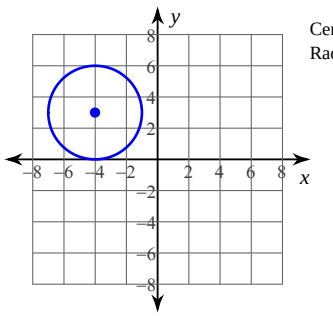
Center: (–4, –3)
Radius: 3

B)



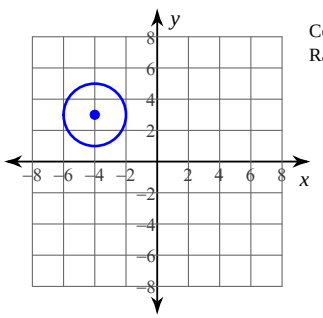
Center: (–2, 4)
Radius: 3

C)



Center: (–4, 3)
Radius: 3

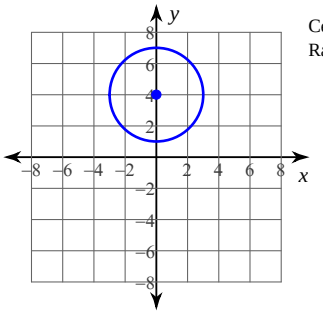
D)



Center: (–4, 3)
Radius: 2

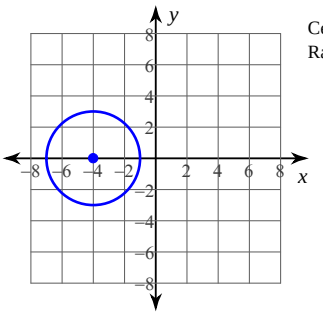
8) $(x+4)^2+y^2=9$

A)



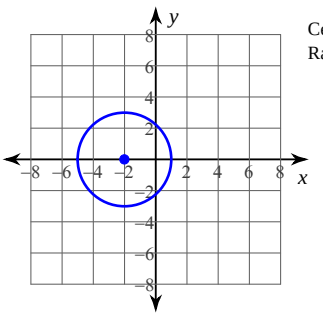
Center: (0, 4)
Radius: 3

B)



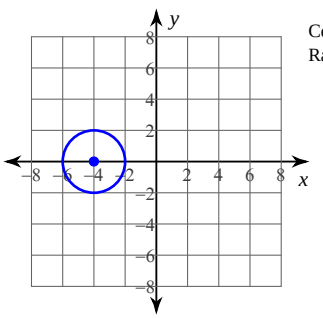
Center: (–4, 0)
Radius: 3

C)



Center: (–2, 0)
Radius: 3

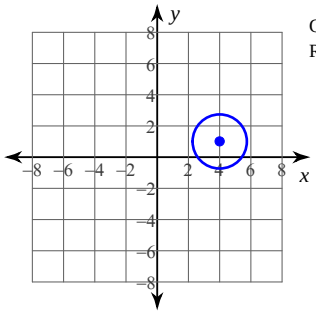
D)



Center: (–4, 0)
Radius: 2

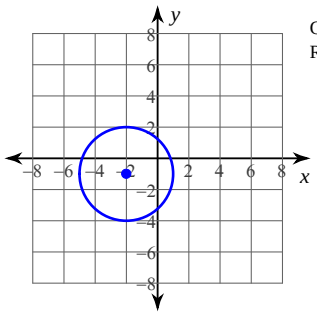
9) $(x-4)^2+(y-1)^2=3$

A)



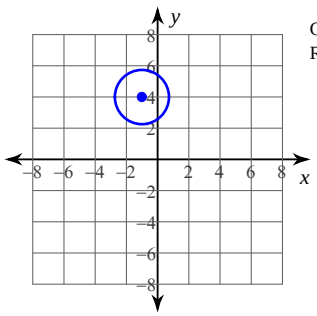
Center: $(4, 1)$
Radius: $\sqrt{3}$

B)



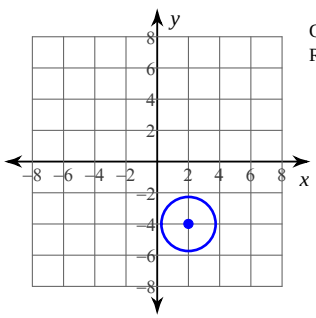
Center: $(-2, -1)$
Radius: 3

C)



Center: $(-1, 4)$
Radius: $\sqrt{3}$

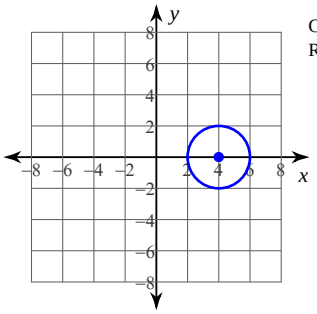
D)



Center: $(2, -4)$
Radius: $\sqrt{3}$

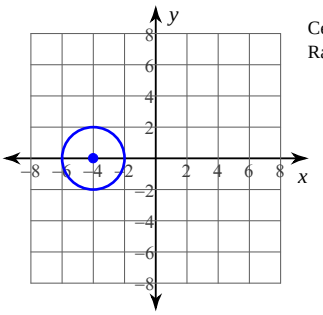
10) $(x-4)^2+y^2=4$

A)



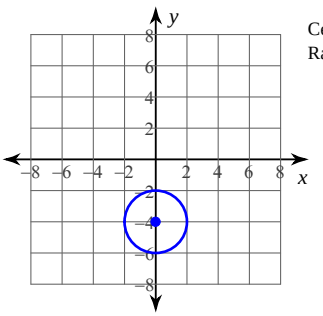
Center: $(4, 0)$
Radius: 2

B)



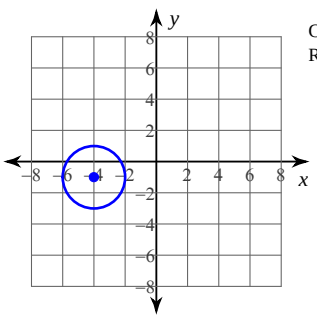
Center: $(-4, 0)$
Radius: 2

C)



Center: $(0, -4)$
Radius: 2

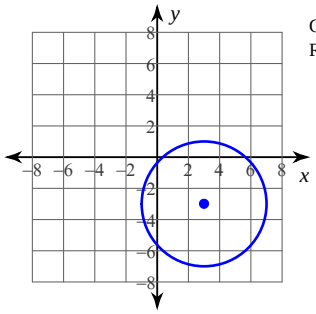
D)



Center: $(-4, -1)$
Radius: 2

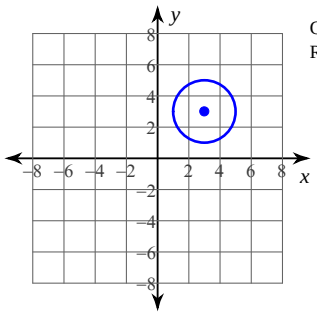
11) $(x-3)^2+(y+3)^2=16$

A)



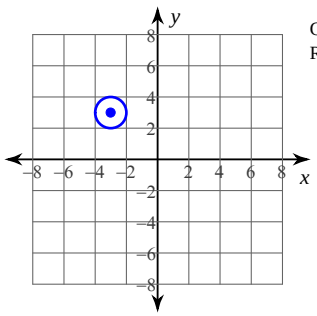
Center: (3, –3)
Radius: 4

B)



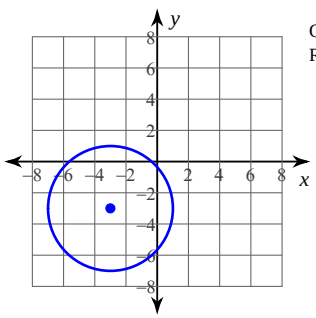
Center: (3, 3)
Radius: 2

C)



Center: (–3, 3)
Radius: 1

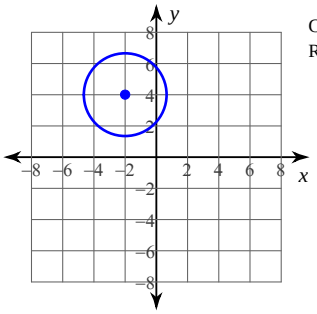
D)



Center: (–3, –3)
Radius: 4

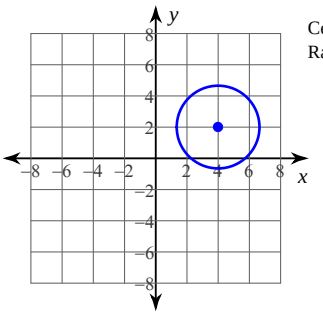
12) $(x-4)^2+(y-2)^2=7$

A)



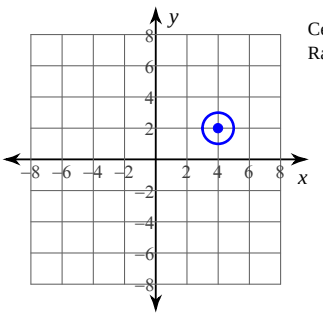
Center: (–2, 4)
Radius: $\sqrt{7}$

B)



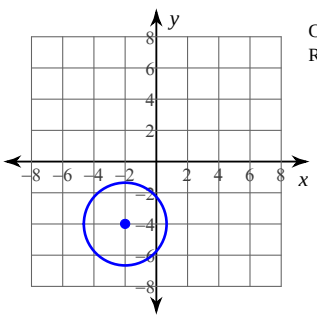
Center: (4, 2)
Radius: $\sqrt{7}$

C)



Center: (4, 2)
Radius: 1

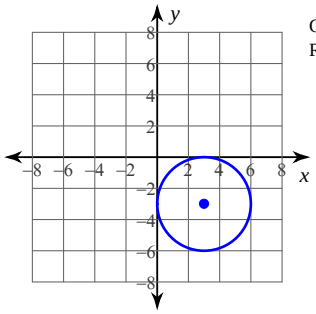
D)



Center: (–2, –4)
Radius: $\sqrt{7}$

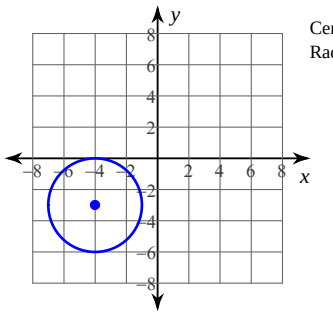
13) $(x-3)^2+(y-4)^2=9$

A)



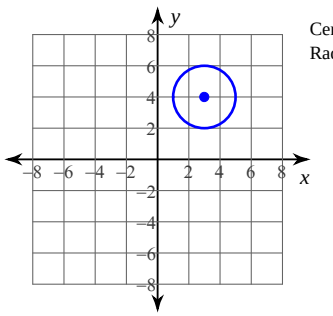
Center: (3, –3)
Radius: 3

B)



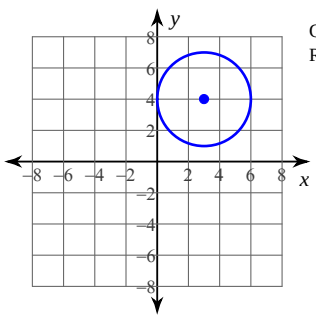
Center: (–4, –3)
Radius: 3

C)



Center: (3, 4)
Radius: 2

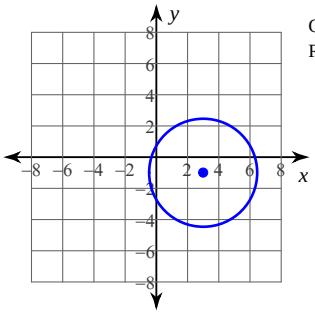
D)



Center: (3, 4)
Radius: 3

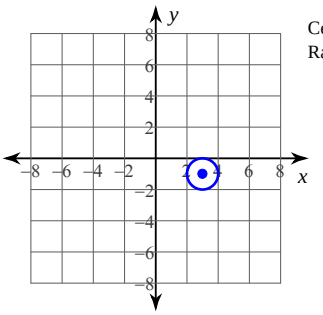
14) $(x-3)^2+(y-1)^2=12$

A)



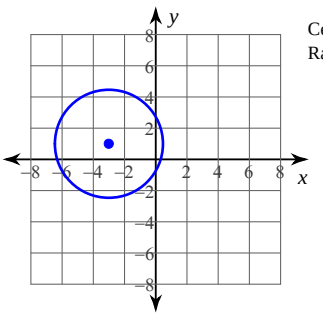
Center: (3, –1)
Radius: $2\sqrt{3}$

B)



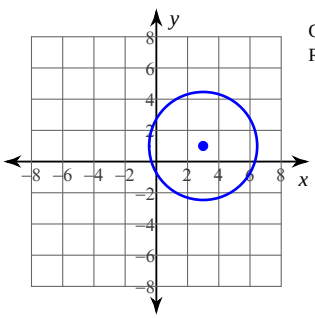
Center: (3, –1)
Radius: 1

C)



Center: (–3, 1)
Radius: $2\sqrt{3}$

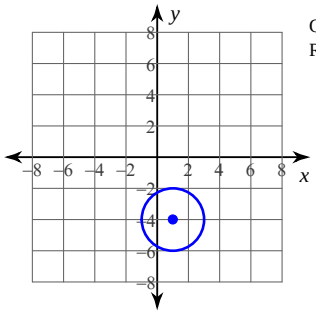
D)



Center: (3, 1)
Radius: $2\sqrt{3}$

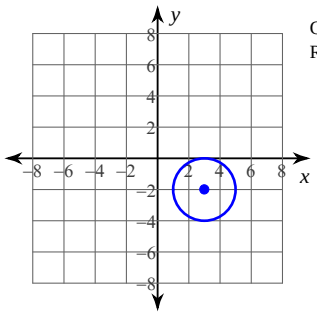
15) $(x-3)^2+(y+2)^2=4$

A)



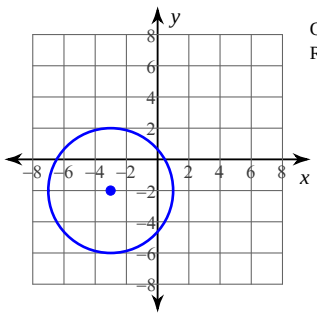
Center: (1, –4)
Radius: 2

B)



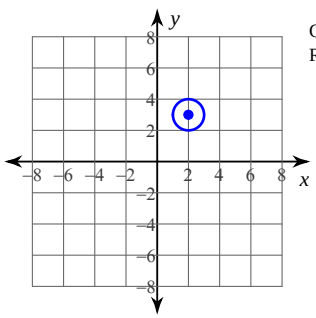
Center: (3, –2)
Radius: 2

C)



Center: (–3, –2)
Radius: 4

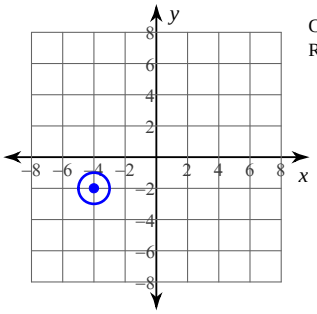
D)



Center: (2, 3)
Radius: 1

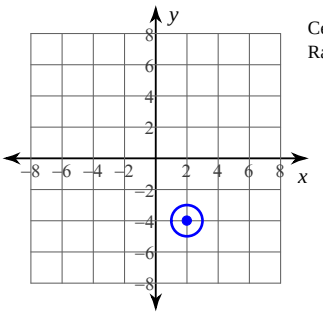
16) $(x-2)^2+(y+4)^2=1$

A)



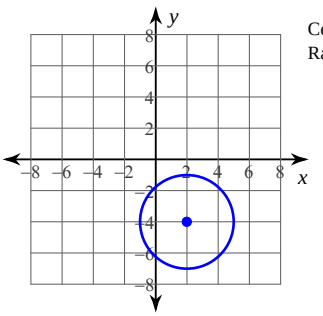
Center: (–4, –2)
Radius: 1

B)



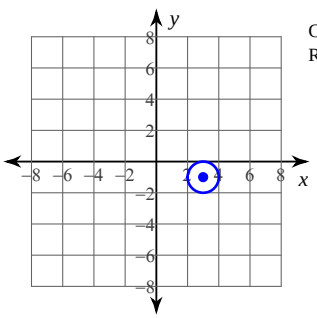
Center: (2, –4)
Radius: 1

C)



Center: (2, –4)
Radius: 3

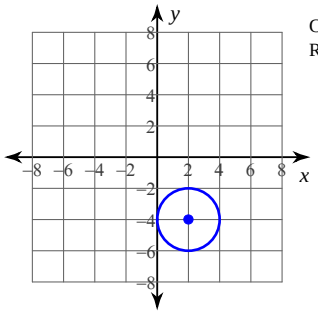
D)



Center: (3, –1)
Radius: 1

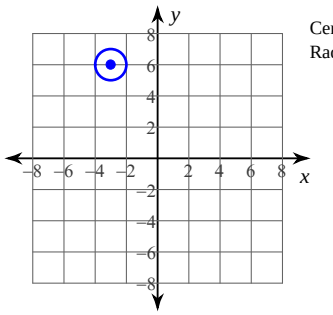
17) $(x-2)^2+(y-4)^2=4$

A)



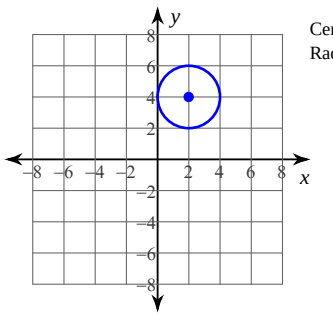
Center: (2, –4)
Radius: 2

B)



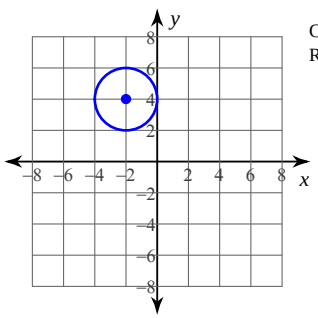
Center: (–3, 6)
Radius: 1

C)



Center: (2, 4)
Radius: 2

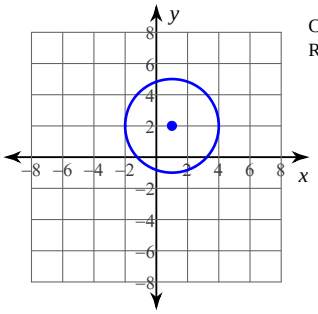
D)



Center: (–2, 4)
Radius: 2

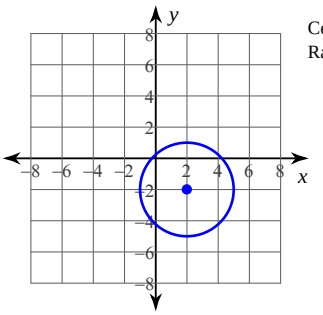
18) $(x-1)^2+(y-2)^2=9$

A)



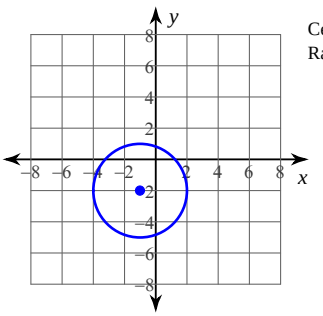
Center: (1, 2)
Radius: 3

B)



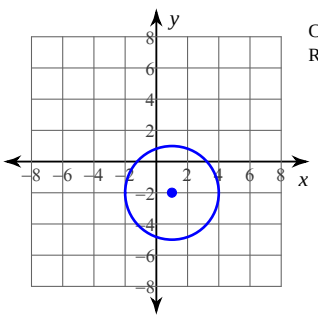
Center: (2, –2)
Radius: 3

C)



Center: (–1, –2)
Radius: 3

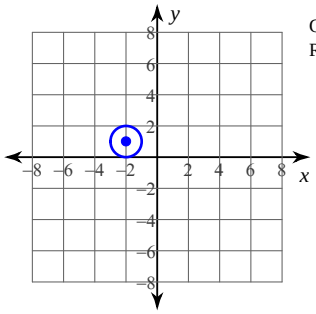
D)



Center: (1, –2)
Radius: 3

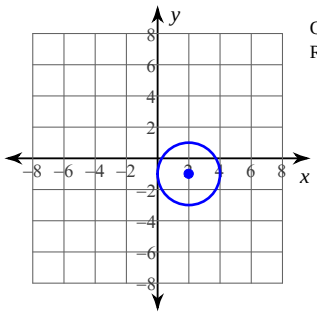
19) $(x-2)^2+(y+1)^2=1$

A)



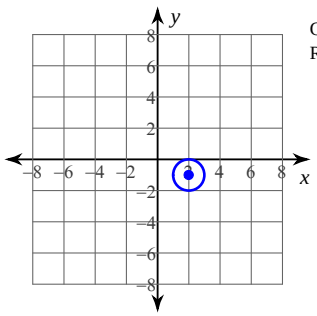
Center: (–2, 1)
Radius: 1

B)



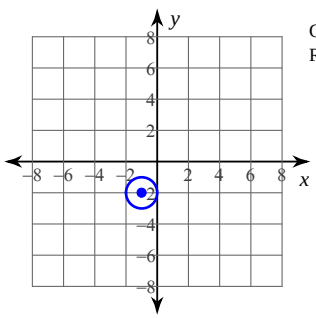
Center: (2, –1)
Radius: 2

C)



Center: (2, –1)
Radius: 1

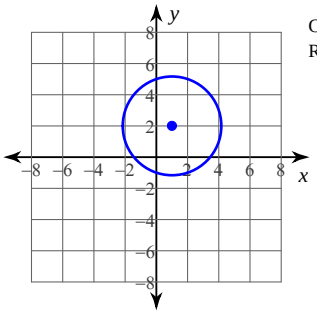
D)



Center: (–1, –2)
Radius: 1

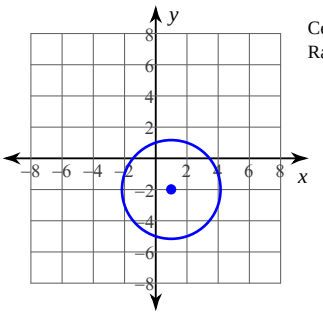
20) $(x-1)^2+(y+2)^2=10$

A)



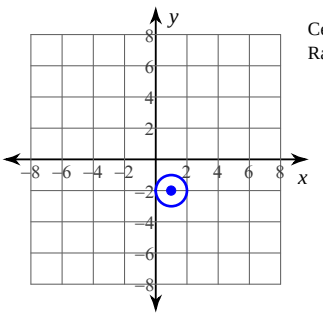
Center: (1, 2)
Radius: $\sqrt{10}$

B)



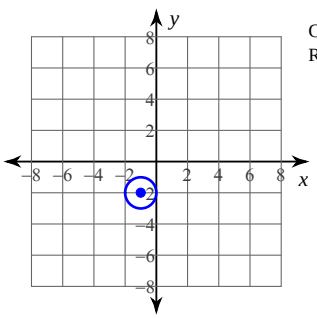
Center: (1, –2)
Radius: $\sqrt{10}$

C)



Center: (1, –2)
Radius: 1

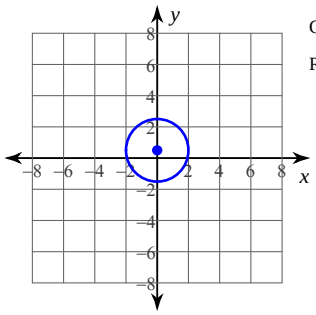
D)



Center: (–1, –2)
Radius: 1

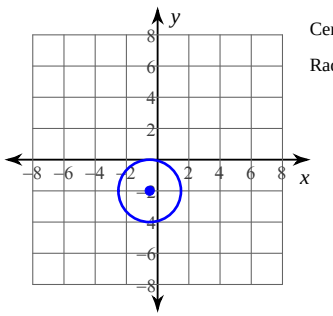
21) $\left(x-\frac{1}{2}\right)^2+(y+2)^2=4$

A)



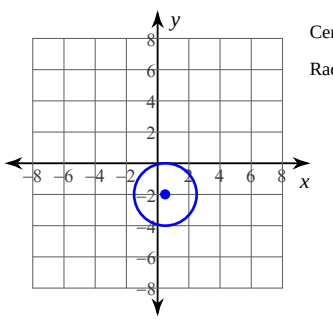
Center: $\left(0, \frac{1}{2}\right)$
Radius: 2

B)



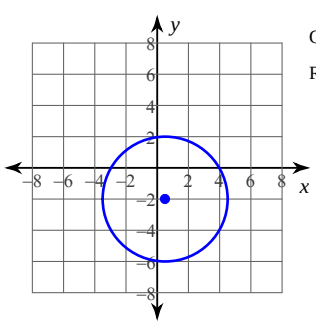
Center: $\left(-\frac{1}{2}, -2\right)$
Radius: 2

C)



Center: $\left(\frac{1}{2}, -2\right)$
Radius: 2

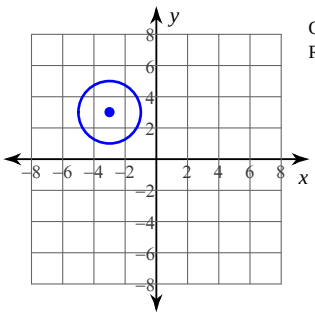
D)



Center: $\left(\frac{1}{2}, -2\right)$
Radius: 4

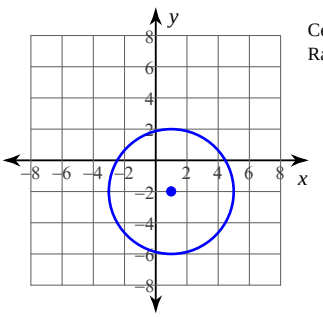
22) $(x-1)^2+(y+2)^2=16$

A)



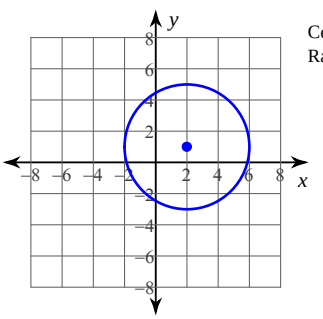
Center: $(-3, 3)$
Radius: 2

B)



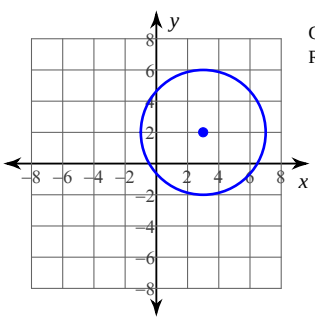
Center: $(1, -2)$
Radius: 4

C)



Center: $(2, 1)$
Radius: 4

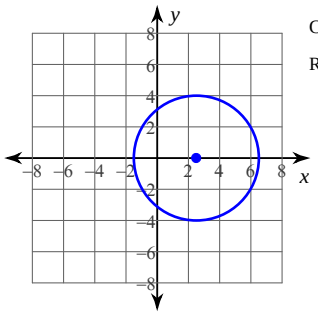
D)



Center: $(3, 2)$
Radius: 4

23) $\left(x+\frac{7}{2}\right)^2+(y+2)^2=4$

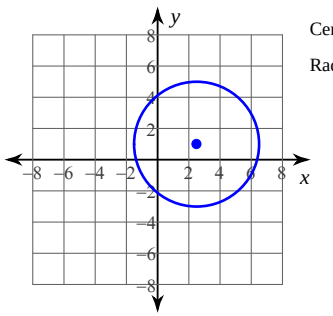
A)



Center: $\left(\frac{5}{2}, 0\right)$

Radius: 4

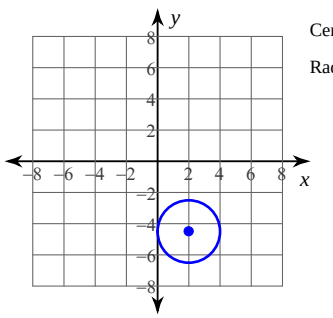
B)



Center: $\left(\frac{5}{2}, 1\right)$

Radius: 4

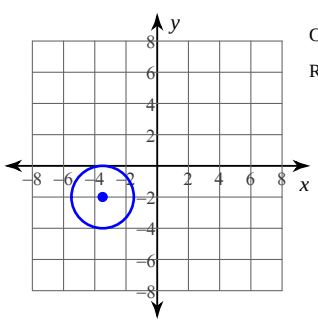
C)



Center: $\left(2, -\frac{9}{2}\right)$

Radius: 2

D)

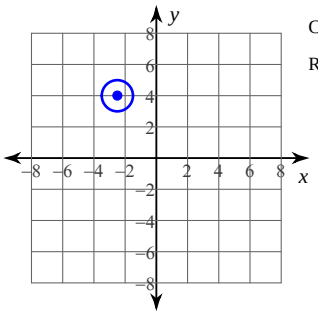


Center: $\left(-\frac{7}{2}, -2\right)$

Radius: 2

24) $(x+4)^2+\left(y+\frac{5}{2}\right)^2=1$

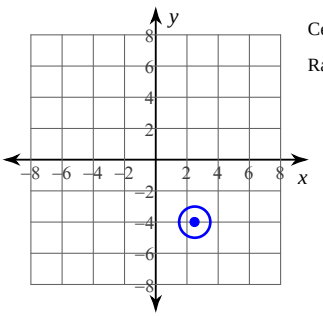
A)



Center: $\left(-\frac{5}{2}, 4\right)$

Radius: 1

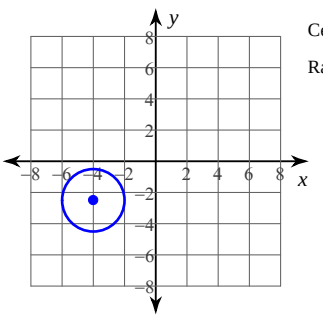
B)



Center: $\left(\frac{5}{2}, -4\right)$

Radius: 1

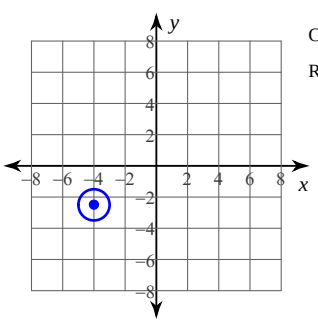
C)



Center: $\left(-4, -\frac{5}{2}\right)$

Radius: 2

D)



Center: $\left(-4, -\frac{5}{2}\right)$

Radius: 1

Answers to Assignment (ID: 9)

1) D
2) D
3) B
4) D
5) C
6) D
7) C
8) B
9) A
10) A
11) A
12) B
13) D
14) D
15) B
16) B
17) C
18) A
19) C
20) B
21) C
22) B
23) D
24) D

Geometry Name_____

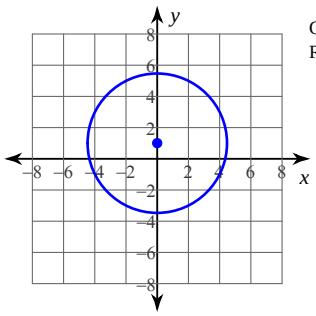
Assignment

Date_____ Period____

Identify the center and radius of each. Then sketch the graph.

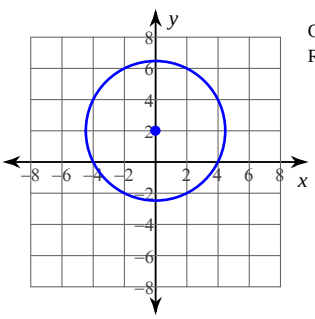
1) $(x+1)^2 + y^2 = 20$

A)



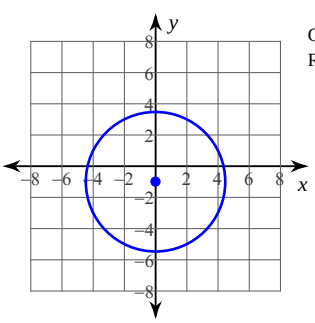
Center: (0, 1)
Radius: $2\sqrt{5}$

B)



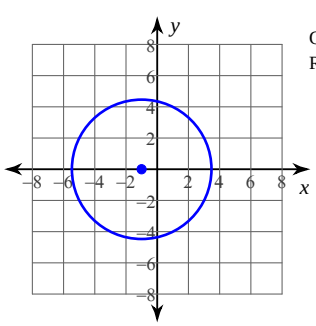
Center: (0, 2)
Radius: $2\sqrt{5}$

C)



Center: (0, –1)
Radius: $2\sqrt{5}$

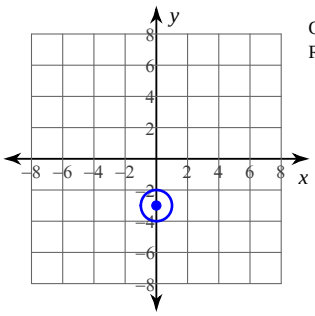
D)



Center: (–1, 0)
Radius: $2\sqrt{5}$

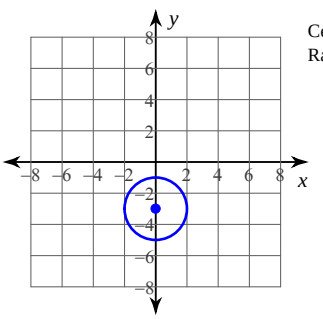
2) $x^2 + (y+3)^2 = 4$

A)



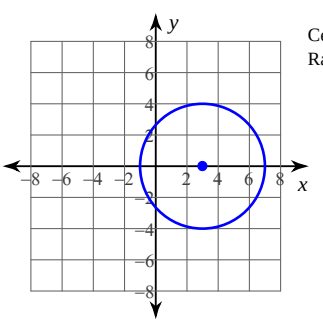
Center: (0, –3)
Radius: 1

B)



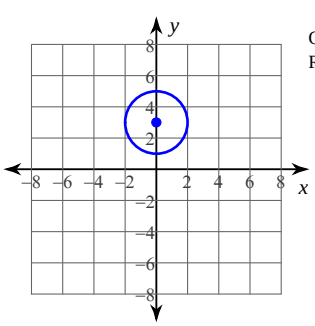
Center: (0, –3)
Radius: 2

C)



Center: (3, 0)
Radius: 4

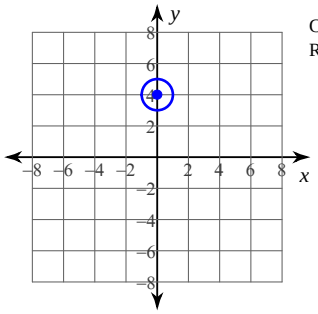
D)



Center: (0, 3)
Radius: 2

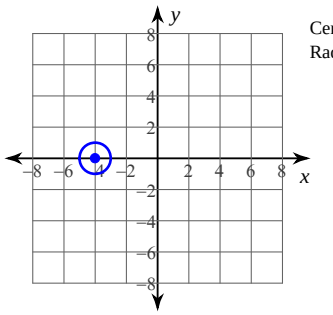
3) $x^2 + (y-4)^2 = 1$

A)



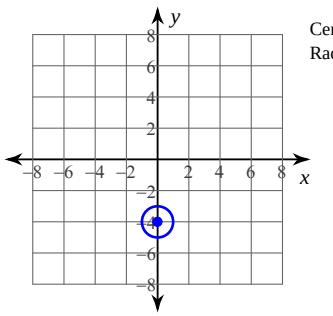
Center: $(0, 4)$
Radius: 1

B)



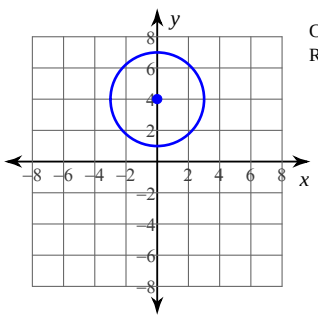
Center: $(-4, 0)$
Radius: 1

C)



Center: $(0, -4)$
Radius: 1

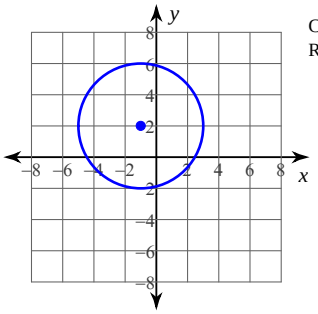
D)



Center: $(0, 4)$
Radius: 3

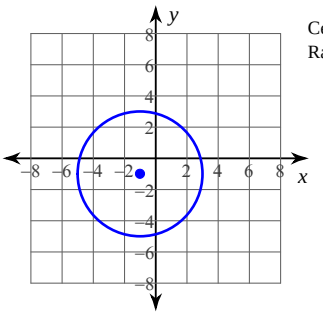
4) $(x+1)^2 + (y-2)^2 = 16$

A)



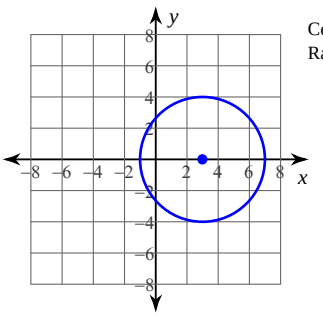
Center: $(-1, 2)$
Radius: 4

B)



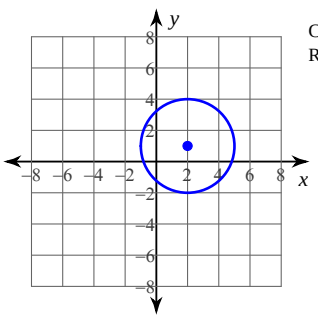
Center: $(-1, -1)$
Radius: 4

C)



Center: $(3, 0)$
Radius: 4

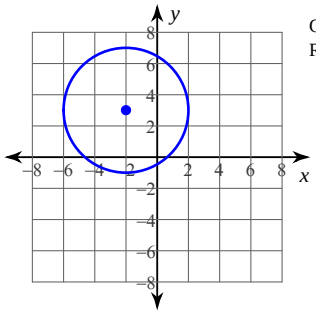
D)



Center: $(2, 1)$
Radius: 3

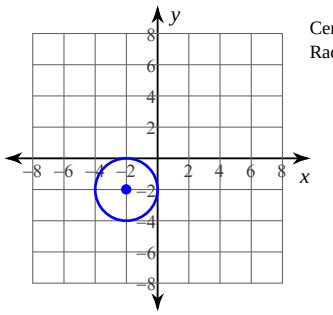
5) $(x+2)^2+(y+2)^2=4$

A)



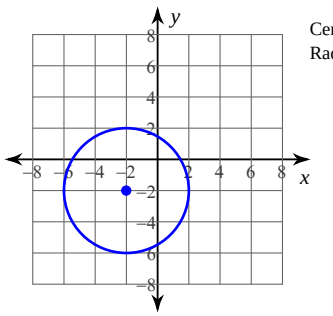
Center: (–2, 3)
Radius: 4

B)



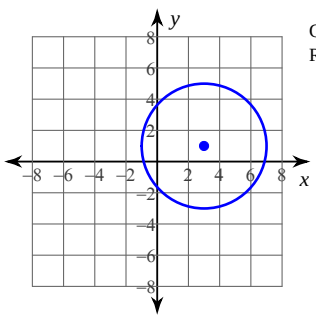
Center: (–2, –2)
Radius: 2

C)



Center: (–2, –2)
Radius: 4

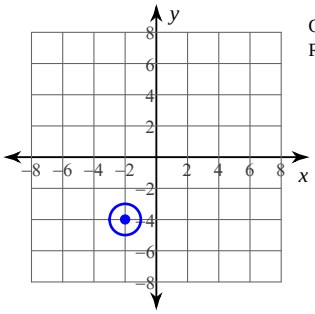
D)



Center: (3, 1)
Radius: 4

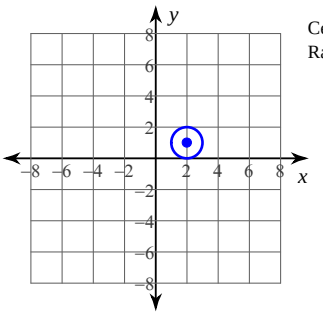
6) $(x+2)^2+(y+4)^2=1$

A)



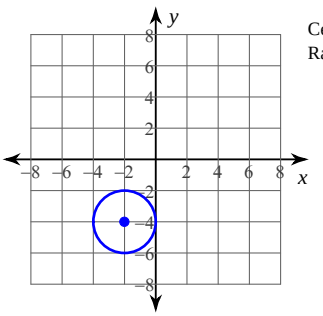
Center: (–2, –4)
Radius: 1

B)



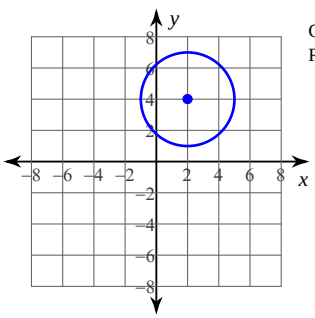
Center: (2, 1)
Radius: 1

C)



Center: (–2, –4)
Radius: 2

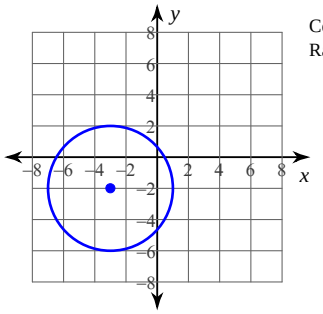
D)



Center: (2, 4)
Radius: 3

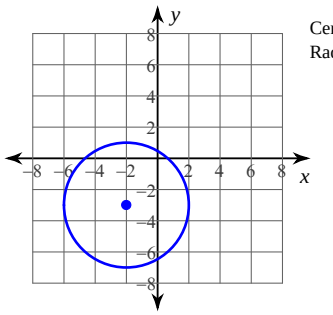
7) $(x+2)^2+(y-3)^2=16$

A)



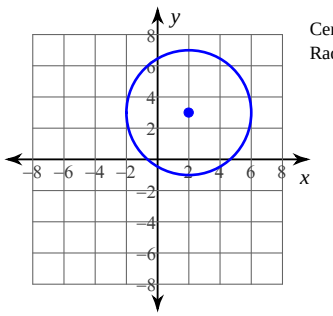
Center: (–3, –2)
Radius: 4

B)



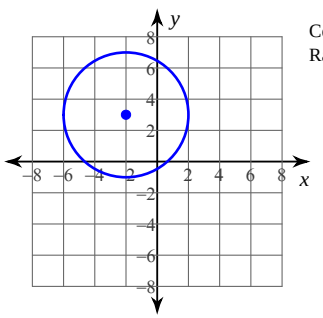
Center: (–2, –3)
Radius: 4

C)



Center: (2, 3)
Radius: 4

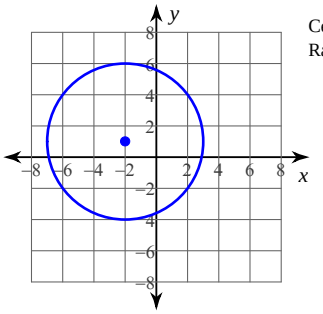
D)



Center: (–2, 3)
Radius: 4

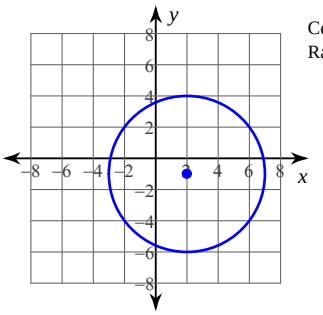
8) $(x+2)^2+(y-1)^2=25$

A)



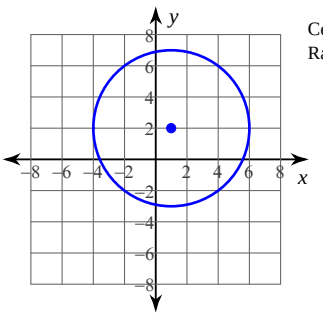
Center: (–2, 1)
Radius: 5

B)



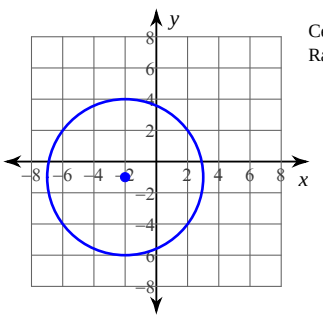
Center: (2, –1)
Radius: 5

C)



Center: (1, 2)
Radius: 5

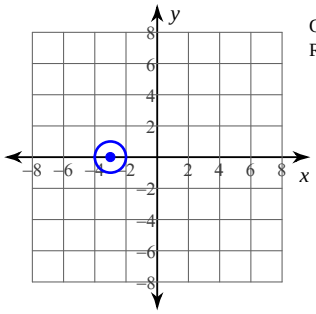
D)



Center: (–2, –1)
Radius: 5

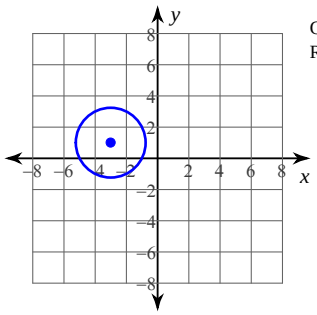
9) $(x+3)^2 + y^2 = 5$

A)



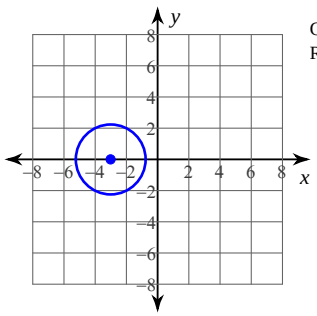
Center: $(-3, 0)$
Radius: 1

B)



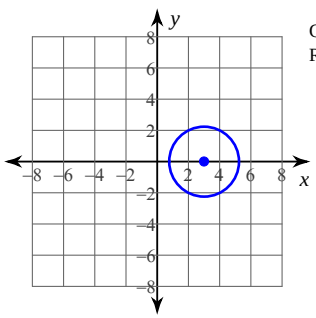
Center: $(-3, 1)$
Radius: $\sqrt{5}$

C)



Center: $(-3, 0)$
Radius: $\sqrt{5}$

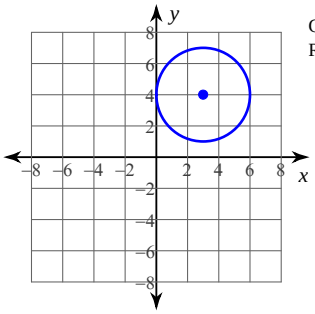
D)



Center: $(3, 0)$
Radius: $\sqrt{5}$

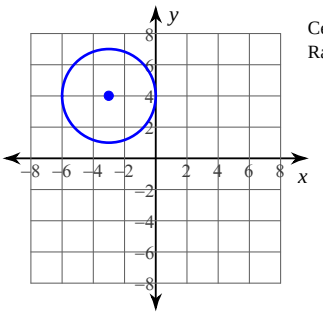
10) $(x+3)^2 + (y-4)^2 = 9$

A)



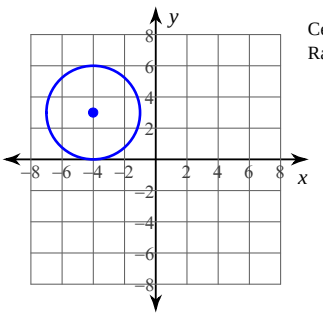
Center: $(3, 4)$
Radius: 3

B)



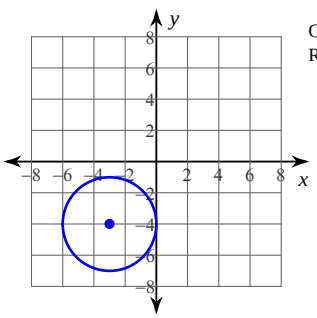
Center: $(-3, 4)$
Radius: 3

C)



Center: $(-4, 3)$
Radius: 3

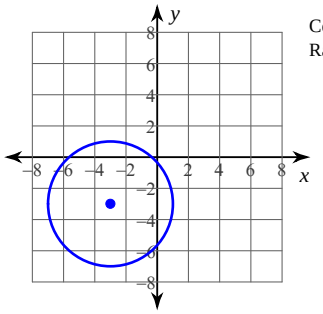
D)



Center: $(-3, -4)$
Radius: 3

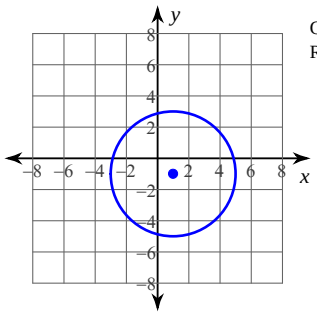
11) $(x+3)^2+(y+3)^2=16$

A)



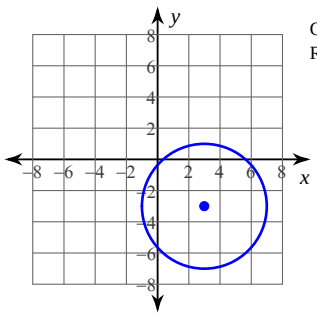
Center: $(-3, -3)$
Radius: 4

B)



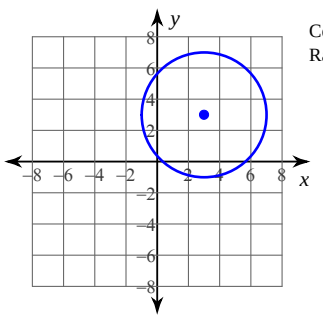
Center: $(1, -1)$
Radius: 4

C)



Center: $(3, -3)$
Radius: 4

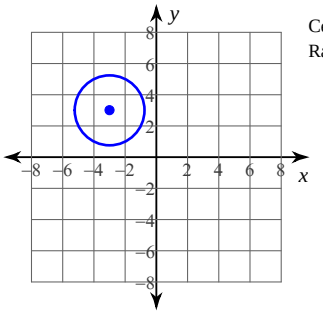
D)



Center: $(3, 3)$
Radius: 4

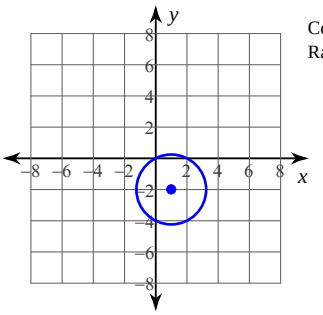
12) $(x+3)^2+(y-3)^2=5$

A)



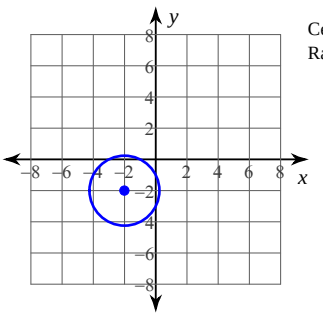
Center: $(-3, 3)$
Radius: $\sqrt{5}$

B)



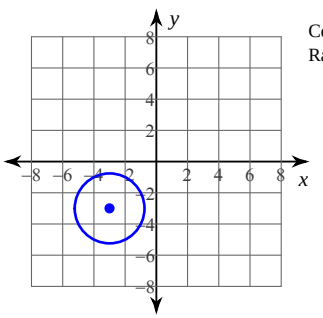
Center: $(1, -2)$
Radius: $\sqrt{5}$

C)



Center: $(-2, -2)$
Radius: $\sqrt{5}$

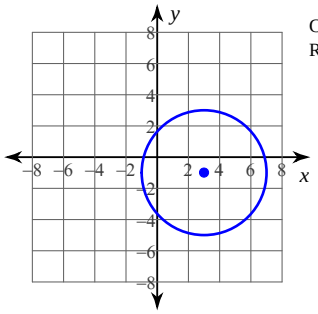
D)



Center: $(-3, -3)$
Radius: $\sqrt{5}$

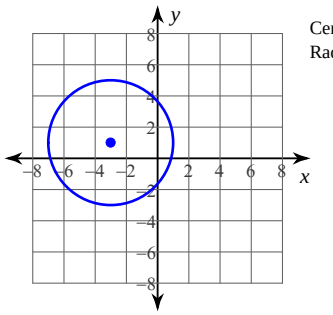
13) $(x+3)^2+(y-1)^2=4$

A)



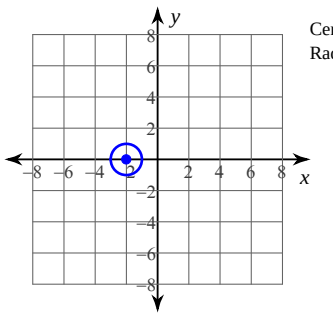
Center: (3, –1)
Radius: 4

B)



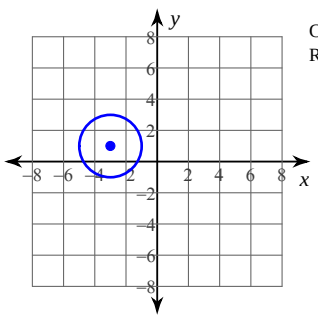
Center: (–3, 1)
Radius: 4

C)



Center: (–2, 0)
Radius: 1

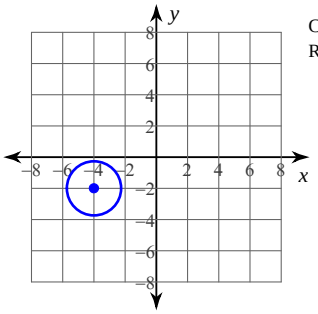
D)



Center: (–3, 1)
Radius: 2

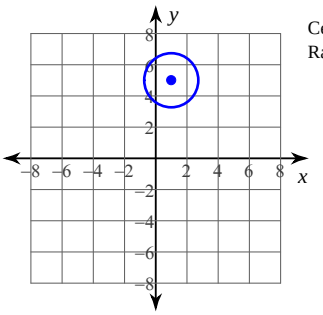
14) $(x+4)^2+(y+2)^2=3$

A)



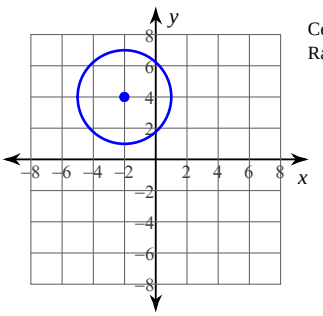
Center: (–4, –2)
Radius: $\sqrt{3}$

B)



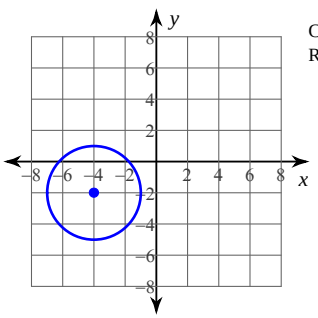
Center: (1, 5)
Radius: $\sqrt{3}$

C)



Center: (–2, 4)
Radius: 3

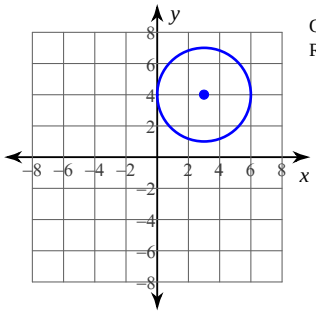
D)



Center: (–4, –2)
Radius: 3

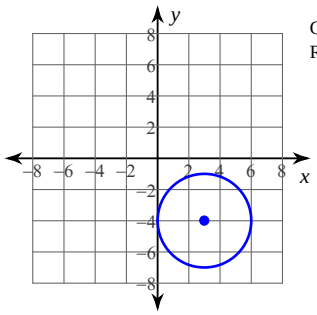
15) $(x+4)^2+(y+3)^2=9$

A)



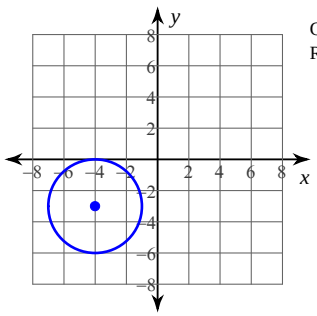
Center: (3, 4)
Radius: 3

B)



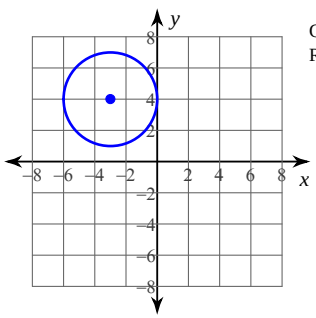
Center: (3, –4)
Radius: 3

C)



Center: (–4, –3)
Radius: 3

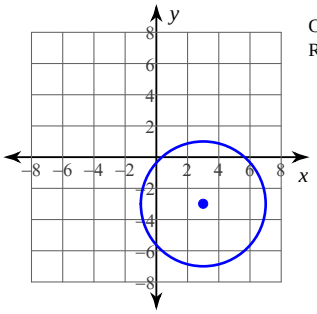
D)



Center: (–3, 4)
Radius: 3

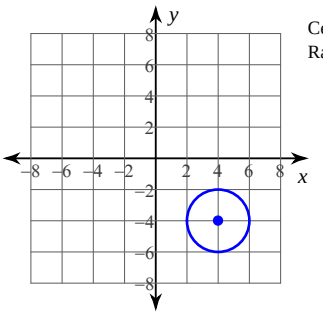
16) $(x-4)^2+(y-4)^2=4$

A)



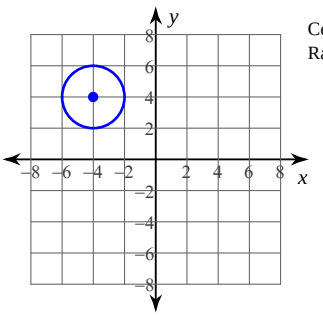
Center: (3, –3)
Radius: 4

B)



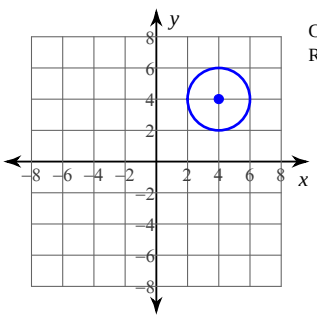
Center: (4, –4)
Radius: 2

C)



Center: (–4, 4)
Radius: 2

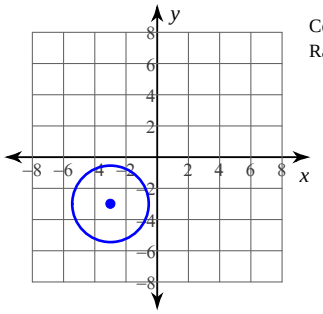
D)



Center: (4, 4)
Radius: 2

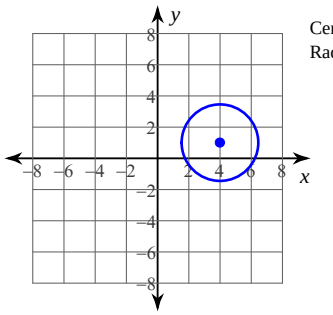
17) $(x-4)^2+(y-1)^2=6$

A)



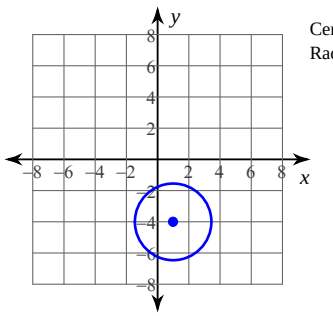
Center: $(-3, -3)$
Radius: $\sqrt{6}$

B)



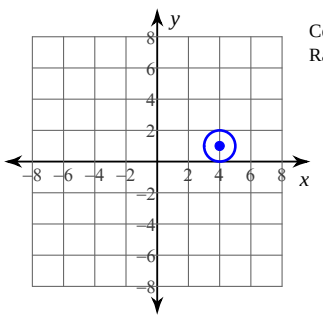
Center: $(4, 1)$
Radius: $\sqrt{6}$

C)



Center: $(1, -4)$
Radius: $\sqrt{6}$

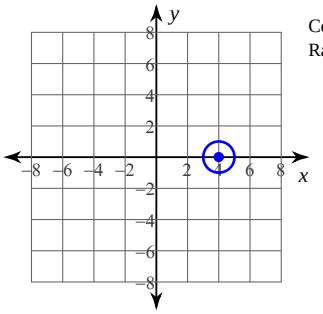
D)



Center: $(4, 1)$
Radius: 1

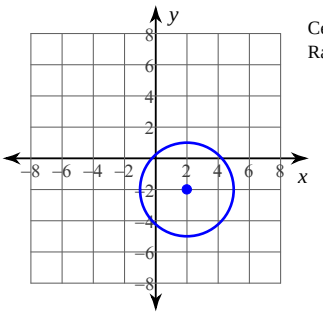
18) $(x-4)^2+y^2=9$

A)



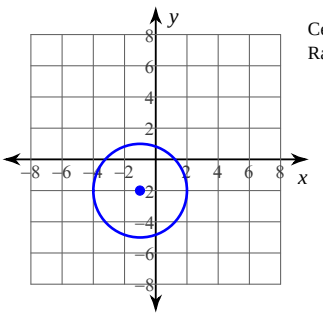
Center: $(4, 0)$
Radius: 1

B)



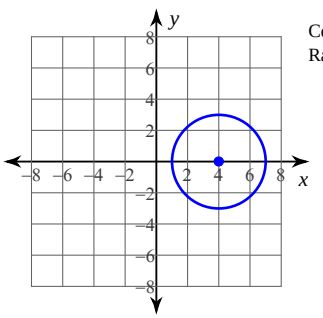
Center: $(2, -2)$
Radius: 3

C)



Center: $(-1, -2)$
Radius: 3

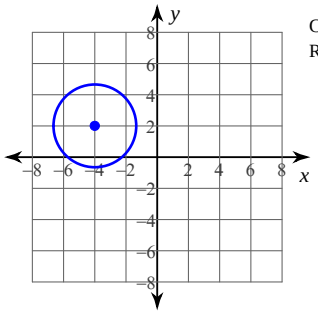
D)



Center: $(4, 0)$
Radius: 3

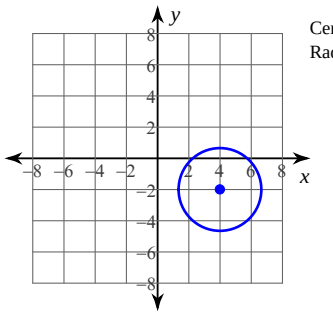
19) $(x-4)^2+(y+2)^2=7$

A)



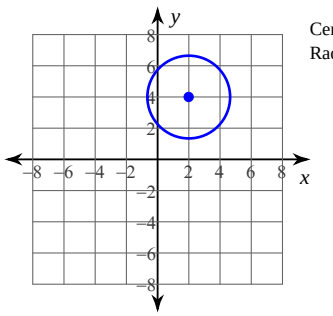
Center: $(-4, 2)$
Radius: $\sqrt{7}$

B)



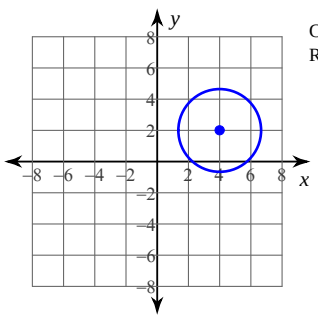
Center: $(4, -2)$
Radius: $\sqrt{7}$

C)



Center: $(2, 4)$
Radius: $\sqrt{7}$

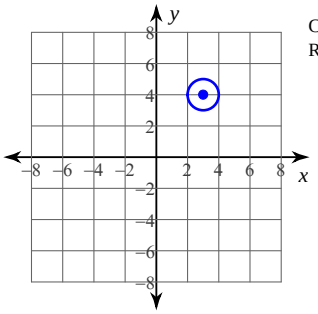
D)



Center: $(4, 2)$
Radius: $\sqrt{7}$

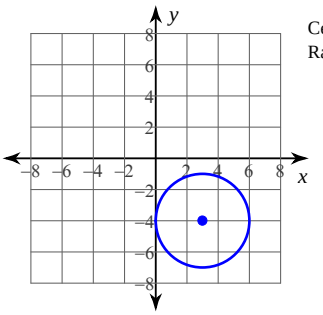
20) $(x-3)^2+(y+4)^2=1$

A)



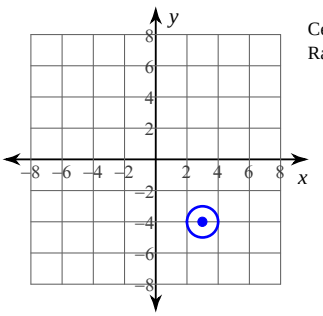
Center: $(3, 4)$
Radius: 1

B)



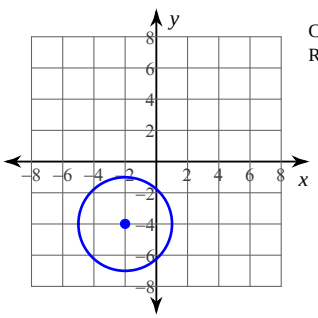
Center: $(3, -4)$
Radius: 3

C)



Center: $(3, -4)$
Radius: 1

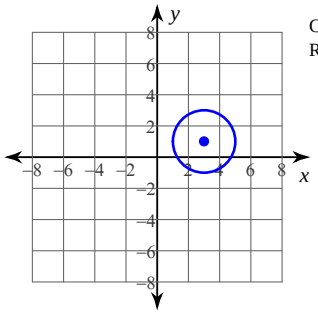
D)



Center: $(-2, -4)$
Radius: 3

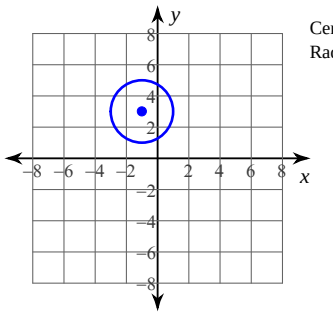
21) $(x-3)^2+(y-1)^2=4$

A)



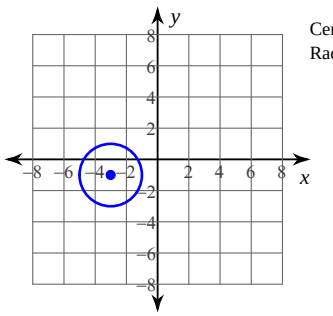
Center: (3, 1)
Radius: 2

B)



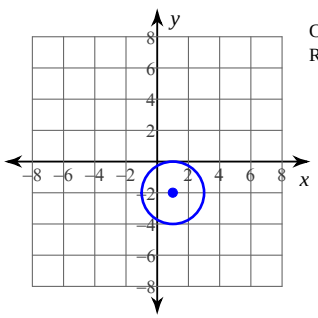
Center: (−1, 3)
Radius: 2

C)



Center: (−3, −1)
Radius: 2

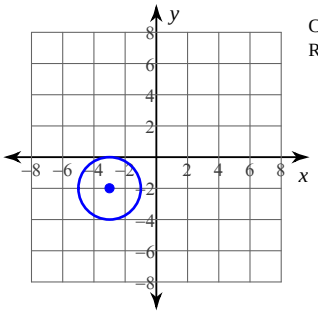
D)



Center: (1, −2)
Radius: 2

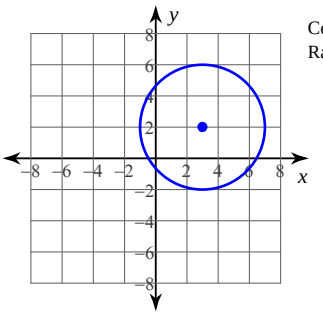
22) $(x-3)^2+(y-2)^2=4$

A)



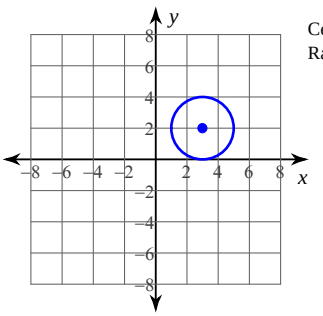
Center: (−3, −2)
Radius: 2

B)



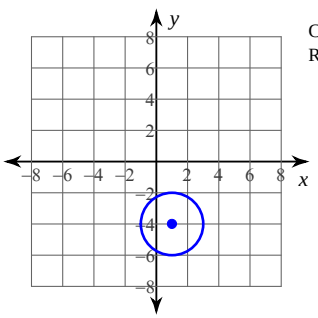
Center: (3, 2)
Radius: 4

C)



Center: (3, 2)
Radius: 2

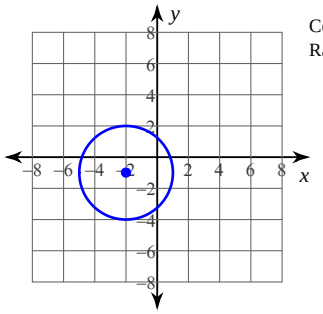
D)



Center: (1, −4)
Radius: 2

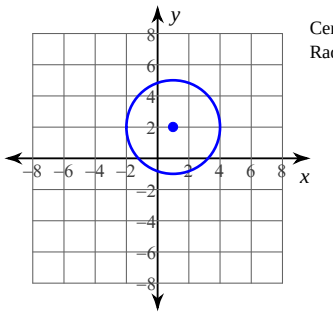
23) $(x-2)^2+(y+1)^2=1$

A)



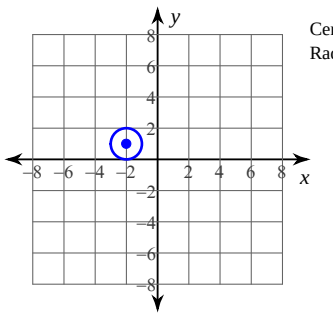
Center: (–2, –1)
Radius: 3

B)



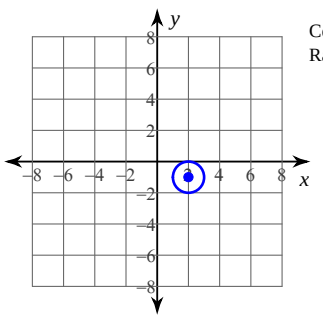
Center: (1, 2)
Radius: 3

C)



Center: (–2, 1)
Radius: 1

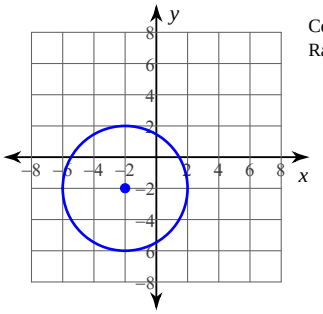
D)



Center: (2, –1)
Radius: 1

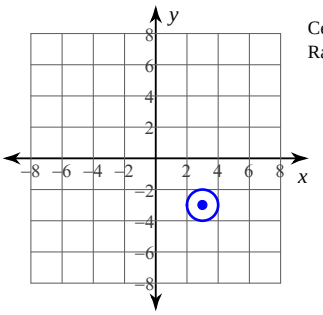
24) $(x-3)^2+(y+3)^2=4$

A)



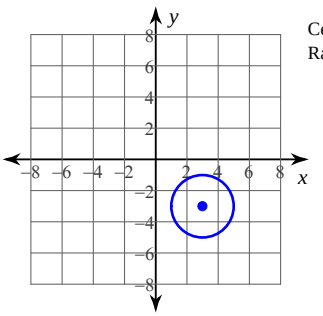
Center: (–2, –2)
Radius: 4

B)



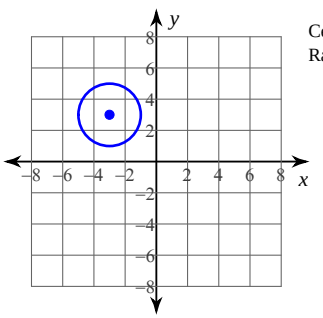
Center: (3, –3)
Radius: 1

C)



Center: (3, –3)
Radius: 2

D)



Center: (–3, 3)
Radius: 2

Answers to Assignment (ID: 10)

1) D
2) B
3) A
4) A
5) B
6) A
7) D
8) A
9) C
10) B
11) A
12) A
13) D
14) A
15) C
16) D
17) B
18) D
19) B
20) C
21) A
22) C
23) D
24) C