Geometry Name_____

Assignment

Date_____ Period____

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through: $(1, -1)$, slope = 3

A) $y = 4x + 4$ B) $y = 4x - 4$
C) $y = 3x - 4$ D) $y = -4x + 4$

2) through: $(-5, 3)$, slope = -1

A) $y = x - 2$ B) $y = 2x - 2$
C) $y = -2x - 2$ D) $y = -x - 2$

3) through: $(4, 4)$, slope = $\frac{9}{4}$

A) $y = -5x + \frac{9}{4}$ B) $y = \frac{9}{4}x - 5$
C) $y = -x + \frac{9}{4}$ D) $y = 5x + \frac{9}{4}$

4) through: $(3, 1)$, slope = $\frac{5}{3}$

A) $y = -\frac{4}{3}x - 4$
B) $y = -\frac{1}{3}x - 4$
C) $y = \frac{5}{3}x - 4$
D) $y = \frac{4}{3}x - 4$

5) through: $(-4, -3)$, slope = $-\frac{1}{2}$

A) $y = -5x - \frac{1}{2}$
B) $y = -\frac{1}{2}x - 5$
C) $y = x - \frac{1}{2}$
D) $y = \frac{1}{2}x - 5$

6) through: $(-1, 5)$, slope = -6

A) $y = 6x - 1$ B) $y = -6x - 1$
C) $y = -x + 1$ D) $y = x - 1$

7) through: $(-3, 2)$, slope = -1

A) $y = x - 1$ B) $y = -x - 5$
C) $y = -x - 1$ D) $y = -5x - 1$

8) through: $(4, -2)$, slope = $-\frac{1}{2}$

A) $y = -\frac{1}{2}$ B) $y = -\frac{1}{2}x$
C) $x = 2$ D) $x = 1$

9) through: $(-1, 1)$, slope = 1

A) $y = 3x + 2$ B) $y = 5x + 2$
C) $y = x + 2$ D) $y = -5x + 2$

10) through: $(1, 5)$, slope = 5

A) $y = -5x$ B) $y = 5$
C) $y = \frac{1}{5}x - 1$ D) $y = 5x$

11) through: $(3, 3)$, slope = 0

A) $y = 3$ B) $x = 1$

C) $y = -\frac{1}{3}x$ D) $x = -1$

12) through: $(3, -1)$, slope = $\frac{1}{3}$

A) $y = -2x - \frac{1}{3}$

B) $y = \frac{1}{3}x - 2$

C) $y = -\frac{1}{3}x - 2$

D) $y = 2x - \frac{1}{3}$

13) through: $(3, 5)$, slope = $\frac{1}{3}$

A) $y = 5x + 4$ B) $y = -x + 4$

C) $y = x + 4$ D) $y = \frac{1}{3}x + 4$

14) through: $(-5, -3)$, slope = $\frac{6}{5}$

A) $y = \frac{6}{5}x + 3$

B) $y = -\frac{2}{5}x + 3$

C) $y = \frac{1}{5}x + 3$

D) $y = -\frac{1}{5}x + 3$

15) through: $(1, 0)$, slope = 5

A) $y = 2x - 5$
B) $y = 5x - 5$
C) $y = -5x + 5$
D) $y = -2x - 5$

16) through: $(5, 3)$, slope = $-\frac{2}{5}$

A) $y = -x + 5$ B) $y = \frac{2}{5}x + 5$

C) $y = -\frac{2}{5}x + 5$ D) $y = 5x + 5$

17) through: $(-1, 3)$, slope = undefined

A) $x = -1$ B) $y = -x$

C) $y = -3x$ D) $y = x$

18) through: $(-3, -4)$, slope = $\frac{8}{3}$

A) $y = \frac{8}{3}x - 4$ B) $y = \frac{8}{3}x + 4$

C) $y = 4x + \frac{8}{3}$ D) $y = -4x + \frac{8}{3}$

19) through: $(4, -5)$, slope = $-\frac{1}{2}$

A) $y = -3x + \frac{1}{2}$

B) $y = \frac{1}{2}x - 3$

C) $y = -\frac{3}{2}x - 3$

D) $y = -\frac{1}{2}x - 3$

20) through: $(4, 0)$, slope = $\frac{1}{3}$

A) $y = \frac{1}{3}x - \frac{4}{3}$

B) $y = \frac{4}{3}x - \frac{1}{3}$

C) $y = -\frac{4}{3}x - \frac{1}{3}$

D) $y = -\frac{1}{3}x - \frac{4}{3}$

21) through: $(4, -3)$, slope = $-\frac{1}{3}$

A) $y = \frac{5}{3}x - \frac{1}{3}$

B) $y = -\frac{1}{3}x - \frac{5}{3}$

C) $y = \frac{1}{3}x - \frac{5}{3}$

D) $y = -\frac{5}{3}x - \frac{1}{3}$

22) through: $(3, 2)$, slope = -1

A) $y = 5x - 3$ B) $y = -3x + 5$

C) $y = 3x + 5$ D) $y = -x + 5$

23) through: $(4, -1)$, slope = $\frac{1}{3}$

A) $y = -\frac{4}{3}x - \frac{7}{3}$

B) $y = \frac{4}{3}x - \frac{7}{3}$

C) $y = -\frac{1}{3}x - \frac{7}{3}$

D) $y = \frac{1}{3}x - \frac{7}{3}$

24) through: $(4, 5)$, slope = $\frac{5}{7}$

A) $y = -\frac{1}{7}x + \frac{15}{7}$

B) $y = -\frac{5}{7}x + \frac{15}{7}$

C) $y = \frac{1}{7}x + \frac{15}{7}$

D) $y = \frac{5}{7}x + \frac{15}{7}$

Answers to Assignment (ID: 1)

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

Geometry Name_____

Assignment

Date_____ Period____

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through: $(3, -1)$, slope = -1

A) $y = 2x - 1$ B) $y = -x - 2$
C) $y = -2x - 1$ D) $y = -x + 2$

2) through: $(2, -2)$, slope = undefined

A) $x = 1$ B) $y = -x$
C) $y = 4x$ D) $x = 2$

3) through: $(-4, 1)$, slope = $\frac{1}{4}$

A) $y = -2x + \frac{1}{4}$ B) $y = \frac{1}{4}x + 2$
C) $y = -x + \frac{1}{4}$ D) $y = 2x + \frac{1}{4}$

4) through: $(3, -5)$, slope = $-\frac{6}{7}$

A) $y = -\frac{1}{7}x - \frac{17}{7}$
B) $y = \frac{1}{7}x - \frac{17}{7}$
C) $y = \frac{6}{7}x - \frac{17}{7}$
D) $y = -\frac{6}{7}x - \frac{17}{7}$

5) through: $(2, -1)$, slope = -3

A) $y = 3x + 5$ B) $y = 5x + 3$
C) $y = -3x + 5$ D) $y = 5x - 3$

6) through: $(-1, -5)$, slope = 10

A) $y = 10x + 5$
B) $y = -3x + 10$
C) $y = 5x + 10$
D) $y = -x + 10$

7) through: $(-3, -4)$, slope = $\frac{8}{3}$

A) $y = -\frac{4}{3}x + \frac{8}{3}$
B) $y = \frac{8}{3}x + 4$
C) $y = 4x + \frac{8}{3}$
D) $y = \frac{4}{3}x + \frac{8}{3}$

8) through: $(-5, 3)$, slope = $\frac{1}{5}$

A) $y = 4x - \frac{2}{5}$
B) $y = \frac{1}{5}x + 4$
C) $y = \frac{2}{5}x + 4$
D) $y = -\frac{2}{5}x + 4$

9) through: $(-4, 2)$, slope = $-\frac{7}{4}$

A) $y = -5x - \frac{7}{4}$
B) $y = -\frac{7}{4}x + \frac{5}{4}$
C) $y = -\frac{7}{4}x - 5$
D) $y = \frac{5}{7}$

10) through: $(4, 1)$, slope = 1

A) $y = -2x - 3$
B) $y = -3x + 1$
C) $y = 2x - 3$
D) $y = x - 3$

11) through: $(4, -2)$, slope = $\frac{1}{4}$

A) $y = \frac{1}{4}x - 3$

B) $y = -2x - 3$

C) $y = x - 3$

D) $y = -\frac{1}{4}x - 3$

12) through: $(-5, -3)$, slope = $\frac{1}{5}$

A) $y = -\frac{1}{5}x - 2$

B) $y = x - 2$

C) $y = \frac{1}{5}x - 2$

D) $y = -\frac{3}{5}x - 2$

13) through: $(-1, 1)$, slope = -2

A) $y = 5x - 1$ B) $y = 2x - 1$

C) $y = -2x - 1$ D) $y = -x - 2$

14) through: $(-3, 2)$, slope = $-\frac{4}{3}$

A) $y = -\frac{1}{3}x - \frac{4}{3}$

B) $y = -2x - \frac{4}{3}$

C) $y = -\frac{2}{3}x - \frac{4}{3}$

D) $y = -\frac{4}{3}x - 2$

15) through: $(-4, -3)$, slope = 1

A) $y = -5x + 1$ B) $y = x + 1$

C) $y = -x + 1$ D) $y = 5x + 1$

16) through: $(2, 4)$, slope = $\frac{5}{2}$

A) $y = -x + \frac{5}{2}$ B) $y = 2x + \frac{5}{2}$

C) $y = \frac{5}{2}x - 1$ D) $y = -2x + \frac{5}{2}$

17) through: $(-2, -4)$, slope = 3

A) $y = 2x + 3$ B) $y = -2x + 3$

C) $y = 3x - 2$ D) $y = 3x + 2$

18) through: $(4, 3)$, slope = $\frac{1}{2}$

A) $y = -2x + \frac{1}{2}$ B) $y = \frac{1}{2}x + 1$

C) $y = x + \frac{1}{2}$ D) $y = -x + \frac{1}{2}$

19) through: $(2, -2)$, slope = -3

A) $y = 2x + 4$

B) $y = -4x + 4$

C) $y = -2x + 4$

D) $y = -3x + 4$

20) through: $(-4, -5)$, slope = 0

A) $y = -5$ B) $y = -\frac{5}{3}$

C) $x = -5$ D) $y = -\frac{5}{3}x$

21) through: $(-1, 0)$, slope = 5

A) $y = 5x - 5$ B) $y = 3x + 5$

C) $y = -5x + 5$ D) $y = 5x + 5$

22) through: $(3, 2)$, slope = $-\frac{1}{3}$

A) $y = -\frac{1}{3}x + 3$

B) $y = \frac{1}{3}x + 3$

C) $y = 3x - \frac{1}{3}$

D) $y = -x + 3$

23) through: $(4, -3)$, slope = $\frac{1}{2}$

A) $y = -2x - 5$

B) $y = -5x - \frac{1}{2}$

C) $y = -\frac{1}{2}x - 5$

D) $y = \frac{1}{2}x - 5$

24) through: $(0, 1)$, slope = -1

A) $y = 4x + 1$

B) $y = x - 1$

C) $y = x + 1$

D) $y = -x + 1$

Answers to Assignment (ID: 2)

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

Geometry Name_____

Assignment

Date_____ Period____

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through: $(-1, -5)$, slope = -1

A) $y = x - 6$ B) $y = -5x - 6$
C) $y = -x - 6$ D) $y = 5x - 6$

2) through: $(-1, -2)$, slope = -1

A) $y = -x - 3$ B) $y = 2x - 3$
C) $y = 3x + 2$ D) $y = -3x + 2$

3) through: $(-2, 0)$, slope = $-\frac{1}{2}$

A) $y = -x - 1$
B) $y = -x - \frac{1}{2}$
C) $y = -\frac{1}{2}x - 1$
D) $y = x - 1$

4) through: $(-1, -2)$, slope = 0

A) $y = -\frac{1}{3}x - \frac{2}{3}$
B) $y = -\frac{2}{3}x - \frac{1}{3}$
C) $y = -2$
D) $y = \frac{2}{3}x - \frac{2}{3}$

5) through: $(-1, -1)$, slope = 0

A) $y = -\frac{3}{5}x - \frac{1}{5}$
B) $y = -\frac{1}{5}x - \frac{1}{5}$
C) $y = x - \frac{1}{5}$
D) $y = -1$

6) through: $(-4, -5)$, slope = 2

A) $y = x + 3$ B) $y = -2x + 3$
C) $y = 2x + 3$ D) $y = -x + 3$

7) through: $(-2, -2)$, slope = -1

A) $y = -4x + 5$ B) $y = 5x - 4$
C) $y = -x - 4$ D) $y = 5x + 5$

8) through: $(-1, 4)$, slope = $-\frac{4}{5}$

A) $y = \frac{4}{5}x + \frac{16}{5}$
B) $y = -\frac{4}{5}x + \frac{16}{5}$
C) $y = -\frac{16}{5}x + \frac{4}{5}$
D) $y = \frac{16}{5}x + \frac{4}{5}$

9) through: $(-5, 2)$, slope = $\frac{1}{5}$

A) $y = \frac{1}{5}x + 3$ B) $y = x + 3$
C) $y = 5x + 3$ D) $y = -3x + 3$

10) through: $(3, 3)$, slope = 0

A) $x = -1$ B) $y = 3$
C) $x = -3$ D) $x = 3$

11) through: $(5, -2)$, slope = $-\frac{7}{5}$

A) $y = \frac{4}{5}x + 5$

B) $y = -\frac{1}{5}x + 5$

C) $y = \frac{1}{5}x + 5$

D) $y = -\frac{7}{5}x + 5$

12) through: $(-4, 1)$, slope = $\frac{3}{4}$

A) $y = -4x + \frac{3}{4}$

B) $y = 4x + \frac{3}{4}$

C) $y = \frac{3}{4}x + 4$

D) $y = \frac{5}{4}x + \frac{3}{4}$

13) through: $(5, -2)$, slope = $-\frac{6}{5}$

A) $y = \frac{4}{5}x + 4$

B) $y = -\frac{6}{5}x + 4$

C) $y = \frac{6}{5}x + 4$

D) $y = -\frac{4}{5}x + 4$

14) through: $(-2, 0)$, slope = -2

A) $y = 4x - 4$

B) $y = -4x + 4$

C) $y = -2x - 4$

D) $y = -4x - 4$

15) through: $(2, 4)$, slope = $-\frac{1}{2}$

A) $y = \frac{3}{2}x + 5$

B) $y = 5x + \frac{3}{2}$

C) $y = -\frac{1}{2}x + 5$

D) $y = -\frac{3}{2}x + 5$

16) through: $(1, -3)$, slope = -1

A) $y = -x - 2$

B) $y = -2x + 1$

C) $y = 2x + 1$

D) $y = x - 2$

17) through: $(3, 4)$, slope = $\frac{7}{3}$

A) $y = -\frac{5}{3}x + \frac{7}{3}$

B) $y = \frac{7}{3}x - 3$

C) $y = -3x + \frac{7}{3}$

D) $y = 3x + \frac{7}{3}$

18) through: $(-4, -3)$, slope = $-\frac{1}{4}$

A) $y = -4x - \frac{1}{4}$

B) $y = -\frac{1}{4}x - 4$

C) $y = -\frac{5}{4}x - \frac{1}{4}$

D) $y = -\frac{1}{2}x - \frac{1}{4}$

19) through: $(-3, -4)$, slope = $\frac{2}{3}$

A) $y = -x - 2$

B) $y = -\frac{4}{3}x - 2$

C) $y = \frac{2}{3}x - 2$

D) $y = -\frac{2}{3}x - 2$

20) through: $(2, -1)$, slope = $-\frac{1}{2}$

A) $y = -\frac{1}{2}x$ B) $y = \frac{1}{2}$

C) $y = \frac{1}{2}x$ D) $y = x$

21) through: $(5, 3)$, slope = $\frac{3}{5}$

A) $y = \frac{1}{5}x$ B) $y = \frac{3}{5}x$

C) $y = 1$ D) $y = x$

22) through: $(-2, -5)$, slope = 3

A) $y = x + 3$ B) $y = 3x - 4$

C) $y = 3x + 1$ D) $y = -4x + 3$

23) through: $(3, -2)$, slope = $-\frac{4}{3}$

A) $y = -x + 2$

B) $y = x + 2$

C) $y = \frac{4}{3}x + 2$

D) $y = -\frac{4}{3}x + 2$

24) through: $(-4, 2)$, slope = $-\frac{1}{4}$

A) $y = -\frac{1}{4}x + 1$

B) $y = \frac{1}{4}x + 1$

C) $y = x - \frac{1}{4}$

D) $y = -x - \frac{1}{4}$

Answers to Assignment (ID: 3)

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

Geometry Name_____

Assignment

Date_____ Period____

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through: $(-3, 1)$, slope = 1

A) $y = -2x + 1$ B) $y = 3x + 1$
C) $y = x + 4$ D) $y = 4x + 1$

2) through: $(-2, -4)$, slope = 3

A) $y = 2x + 3$ B) $y = -2x + 2$
C) $y = -3x + 2$ D) $y = 3x + 2$

3) through: $(-5, -4)$, slope = -1

A) $y = -9x - 1$
B) $y = -x - 9$
C) $y = 4x - 1$
D) $y = -4x - 1$

4) through: $(-1, 1)$, slope = -6

A) $y = -5x - 6$
B) $y = -6x - 5$
C) $y = -4x - 6$
D) $y = 4x - 6$

5) through: $(5, -3)$, slope = $-\frac{7}{5}$

A) $y = -\frac{7}{5}x + 4$

B) $y = \frac{1}{5}x + 4$

C) $y = 4x + \frac{1}{5}$

D) $y = -\frac{2}{5}x + 4$

6) through: $(-5, 3)$, slope = $-\frac{7}{8}$

A) $y = -\frac{11}{8}x + \frac{7}{8}$

B) $y = \frac{7}{8}x - \frac{11}{8}$

C) $y = -\frac{5}{8}x + \frac{7}{8}$

D) $y = -\frac{7}{8}x - \frac{11}{8}$

7) through: $(2, 4)$, slope = $-\frac{1}{2}$

A) $y = -\frac{1}{2}x + 5$

B) $y = -\frac{5}{2}x + 5$

C) $y = \frac{1}{2}x + 5$

D) $y = \frac{5}{2}x + 5$

8) through: $(-5, 1)$, slope = $-\frac{4}{5}$

A) $y = -\frac{4}{5}x - 3$

B) $y = \frac{2}{5}x - 3$

C) $y = \frac{1}{5}x - 3$

D) $y = -3x + \frac{2}{5}$

9) through: $(4, -5)$, slope = $-\frac{1}{3}$

A) $y = -x - \frac{11}{3}$

B) $y = x - \frac{11}{3}$

C) $y = -\frac{11}{3}x - 1$

D) $y = -\frac{1}{3}x - \frac{11}{3}$

10) through: $(5, 0)$, slope = 0

A) $x = 0$ B) $y = 0$
C) $y = \frac{1}{3}x$ D) $y = -\frac{4}{3}x$

11) through: $(5, 5)$, slope = $\frac{7}{3}$

A) $y = \frac{7}{3}x - \frac{20}{3}$

B) $y = \frac{1}{3}x - \frac{20}{3}$

C) $y = -\frac{20}{3}x - \frac{1}{3}$

D) $y = -\frac{1}{3}x - \frac{20}{3}$

12) through: $(5, 5)$, slope = undefined

A) $y = 5x$ B) $x = -5$

C) $x = 5$ D) $x = -1$

13) through: $(5, 3)$, slope = $\frac{2}{3}$

A) $y = -\frac{1}{3}x - \frac{2}{3}$

B) $y = \frac{2}{3}x - \frac{1}{3}$

C) $y = \frac{1}{3}x - \frac{2}{3}$

D) $y = -\frac{2}{3}x - \frac{1}{3}$

14) through: $(4, 4)$, slope = $\frac{1}{2}$

A) $y = \frac{5}{2}x + 2$

B) $y = -\frac{5}{2}x + 2$

C) $y = \frac{1}{2}x + 2$

D) $y = \frac{3}{2}x + 2$

15) through: $(-3, 1)$, slope = $\frac{2}{3}$

A) $y = \frac{2}{3}x + 3$

B) $y = -\frac{5}{3}x + 3$

C) $y = 3x - \frac{5}{3}$

D) $y = \frac{5}{3}x + 3$

16) through: $(-1, 0)$, slope = 4

A) $y = 3x + 4$ B) $y = -4x + 4$

C) $y = 4x + 4$ D) $y = -3x + 4$

17) through: $(-4, -1)$, slope = $\frac{5}{4}$

A) $y = 4x + \frac{5}{4}$

B) $y = \frac{5}{4}x + 4$

C) $y = -\frac{1}{4}x + \frac{5}{4}$

D) $y = -\frac{1}{2}x + \frac{5}{4}$

18) through: $(-4, -5)$, slope = 0

A) $y = 5x - 5$ B) $y = x - 5$

C) $y = -x - 5$ D) $y = -5$

19) through: $(5, -3)$, slope = $-\frac{6}{5}$

A) $y = \frac{6}{5}x + 3$

B) $y = -\frac{6}{5}x + 3$

C) $y = \frac{2}{5}x + 3$

D) $y = -\frac{2}{5}x + 3$

20) through: $(4, 3)$, slope = 2

A) $y = 2x - 5$ B) $y = 2x + 5$

C) $y = -5x + 2$ D) $y = 5x + 2$

21) through: $(1, -1)$, slope = 3

A) $y = 4x - 4$ B) $y = 2x - 4$

C) $y = 3x - 4$ D) $y = -2x - 4$

22) through: $(-5, 2)$, slope = -1

A) $y = x - 3$ B) $y = 3x - 1$

C) $y = -3x - 1$ D) $y = -x - 3$

23) through: $(-2, 3)$, slope = $-\frac{5}{2}$

A) $y = 2x - 2$

B) $y = -\frac{5}{2}x - 2$

C) $y = -2x - 2$

D) $y = 4x - 2$

24) through: $(-3, -5)$, slope = $\frac{1}{3}$

A) $y = -4x - \frac{4}{3}$

B) $y = 4x - \frac{4}{3}$

C) $y = -\frac{4}{3}x - 4$

D) $y = \frac{1}{3}x - 4$

Answers to Assignment (ID: 4)

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

Geometry Name_____

Assignment

Date_____ Period____

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through: $(-3, -1)$, slope = 0

A) $y = 2x - 1$ B) $y = -1$
C) $y = 4x + 2$ D) $y = -x + 2$

2) through: $(-1, 5)$, slope = –6

A) $y = -6x - 1$ B) $y = -x - 6$
C) $y = 3x - 6$ D) $y = x - 6$

3) through: $(4, -3)$, slope = $-\frac{3}{4}$

A) $y = \frac{1}{4}x$ B) $y = -\frac{1}{4}x$
C) $y = \frac{1}{4}$ D) $y = -\frac{3}{4}x$

4) through: $(1, 4)$, slope = 3

A) $y = -x + 3$ B) $y = 3x + 1$
C) $y = -3x + 3$ D) $y = x + 3$

5) through: $(-5, -3)$, slope = $\frac{6}{5}$

A) $y = -\frac{2}{5}x + 3$
B) $y = \frac{2}{5}x + 3$
C) $y = \frac{6}{5}x + 3$
D) $y = -\frac{6}{5}x + 3$

6) through: $(-5, 2)$, slope = $\frac{1}{5}$

A) $y = -\frac{1}{5}x + 3$
B) $y = \frac{1}{5}x + 3$
C) $y = \frac{2}{5}x + 3$
D) $y = -\frac{2}{5}x + 3$

7) through: $(-4, 2)$, slope = $-\frac{1}{4}$

A) $y = -\frac{1}{4}x - 1$
B) $y = -\frac{1}{4}x + 1$
C) $y = x - \frac{1}{4}$
D) $y = -x - \frac{1}{4}$

8) through: $(5, 2)$, slope = $-\frac{2}{5}$

A) $y = \frac{4}{5}x + 4$
B) $y = -\frac{2}{5}x + 4$
C) $y = -\frac{4}{5}x + 4$
D) $y = \frac{2}{5}x + 4$

9) through: $(4, 3)$, slope = $-\frac{1}{2}$

A) $y = -3x + 5$
B) $y = -\frac{1}{2}x + 5$
C) $y = 2x + 5$
D) $y = -x + 5$

10) through: $(-3, -4)$, slope = $\frac{8}{3}$

A) $y = \frac{8}{3}x + 4$
B) $y = -\frac{8}{3}x + 4$
C) $y = -4x - \frac{8}{3}$
D) $y = 4x - \frac{8}{3}$

11) through: $(1, -2)$, slope = -7

A) $y = -7x + 5$ B) $y = -x + 5$
C) $y = 5x - 1$ D) $y = x - 1$

12) through: $(1, -5)$, slope = 1

A) $y = 6x + 1$ B) $y = x - 6$
C) $y = -6x + 1$ D) $y = -x - 6$

13) through: $(5, 2)$, slope = 1

A) $y = x - 3$ B) $y = -x - 3$
C) $y = -3x - 1$ D) $y = 3x - 1$

14) through: $(1, -1)$, slope = $\frac{1}{2}$

A) $y = \frac{1}{2}x - \frac{3}{2}$

B) $y = x - \frac{3}{2}$

C) $y = -x - \frac{3}{2}$

D) $y = -\frac{3}{2}x - 1$

15) through: $(0, 2)$, slope = $-\frac{1}{2}$

A) $y = 5x + 2$ B) $y = -\frac{1}{2}x + 2$
C) $y = -x + 2$ D) $y = -2x + 2$

16) through: $(1, 4)$, slope = $\frac{5}{4}$

A) $y = \frac{5}{4}x + \frac{11}{4}$

B) $y = -\frac{11}{4}x - \frac{5}{4}$

C) $y = \frac{11}{4}x - \frac{5}{4}$

D) $y = -\frac{5}{4}x + \frac{11}{4}$

17) through: $(1, 3)$, slope = $\frac{3}{2}$

A) $y = \frac{3}{2}x + \frac{3}{2}$

B) $y = -\frac{3}{2}x + \frac{3}{2}$

C) $y = \frac{3}{2}x - \frac{5}{2}$

D) $y = -\frac{5}{2}x + \frac{3}{2}$

18) through: $(1, 0)$, slope = $-\frac{1}{2}$

A) $y = \frac{1}{2}x + \frac{1}{2}$

B) $y = \frac{1}{2}x - \frac{1}{2}$

C) $y = -\frac{1}{2}x - \frac{1}{2}$

D) $y = -\frac{1}{2}x + \frac{1}{2}$

19) through: $(1, 0)$, slope = -1

A) $y = x - 1$ B) $y = 2x - 1$
C) $y = -x + 1$ D) $y = -x + 2$

20) through: $(-1, 2)$, slope = 0

A) $x = -1$ B) $y = 2$
C) $y = \frac{1}{2}$ D) $x = 1$

21) through: $(0, -5)$, slope = $-\frac{3}{2}$

A) $y = 2x - \frac{3}{2}$

B) $y = 5x - \frac{3}{2}$

C) $y = -\frac{3}{2}x - 5$

D) $y = -5x - \frac{3}{2}$

22) through: $(4, 4)$, slope = $\frac{1}{2}$

A) $y = \frac{3}{2}x + 2$

B) $y = \frac{1}{2}x + 2$

C) $y = -\frac{1}{2}x + 2$

D) $y = 2x + \frac{3}{2}$

23) through: $(-3, -5)$, slope = $\frac{8}{3}$

A) $y = \frac{8}{3}x + 3$

B) $y = 3x + \frac{8}{3}$

C) $y = \frac{8}{3}x + 1$

D) $y = x + \frac{8}{3}$

24) through: $(5, 3)$, slope = $-\frac{1}{5}$

A) $y = -\frac{1}{5}x + 4$

B) $y = -4x + \frac{1}{5}$

C) $y = \frac{1}{5}x + 4$

D) $y = 4x + \frac{1}{5}$

Answers to Assignment (ID: 5)

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

Geometry Name_____

Assignment

Date_____ Period____

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through: $(2, -1)$, slope = -3

A) $y = 5x + 5$
B) $y = 3x + 5$
C) $y = -5x + 5$
D) $y = -3x + 5$

2) through: $(-1, 5)$, slope = -10

A) $y = -5x + 10$
B) $y = -10x - 5$
C) $y = 10x - 5$
D) $y = 5x + 10$

3) through: $(-1, -3)$, slope = undefined

A) $y = \frac{1}{5}$ B) $x = -1$
C) $x = 1$ D) $y = -\frac{5}{3}x + \frac{1}{3}$

4) through: $(-2, -4)$, slope = 0

A) $y = -x + \frac{4}{5}$ B) $y = x + \frac{4}{5}$
C) $y = \frac{1}{5}x + \frac{4}{5}$ D) $y = -4$

5) through: $(4, -2)$, slope = $\frac{1}{2}$

A) $y = \frac{1}{2}x - 4$
B) $y = -\frac{1}{2}x - 4$
C) $y = -4x + \frac{1}{2}$
D) $y = \frac{3}{2}x - 4$

6) through: $(2, 4)$, slope = $\frac{5}{2}$

A) $y = 2x - 1$
B) $y = -\frac{5}{2}x - 1$
C) $y = -2x - 1$
D) $y = \frac{5}{2}x - 1$

7) through: $(-3, 0)$, slope = $-\frac{2}{3}$

A) $y = 2x + \frac{4}{3}$
B) $y = -2x + \frac{4}{3}$
C) $y = -\frac{2}{3}x - 2$
D) $y = \frac{4}{3}x - 2$

8) through: $(5, -3)$, slope = $-\frac{1}{5}$

A) $y = \frac{1}{5}x - 2$
B) $y = -\frac{2}{5}x - 2$
C) $y = -\frac{4}{5}x - 2$
D) $y = -\frac{1}{5}x - 2$

9) through: $(-4, -4)$, slope = 1

A) $y = 1$ B) $x = 1$
C) $x = -1$ D) $y = x$

10) through: $(-2, 4)$, slope = undefined

A) $x = -2$ B) $y = 2$
C) $y = 2x$ D) $y = -x + 2$

11) through: $(5, -2)$, slope = $-\frac{1}{5}$

A) $y = -x + \frac{1}{5}$

B) $y = -\frac{1}{5}x - 1$

C) $y = \frac{1}{5}x - 1$

D) $y = -x - \frac{1}{5}$

12) through: $(-2, -5)$, slope = 4

A) $y = 4x + 3$

B) $y = 3x + 4$

C) $y = -3x + 4$

D) $y = -2x + 4$

13) through: $(4, 3)$, slope = $\frac{1}{2}$

A) $y = \frac{1}{2}x + 1$

B) $y = -\frac{1}{2}x + 1$

C) $y = x + \frac{1}{2}$

D) $y = -\frac{3}{2}x + 1$

14) through: $(2, -2)$, slope = -3

A) $y = -3x + 4$

B) $y = 3x + 4$

C) $y = 2x + 4$

D) $y = -2x + 4$

15) through: $(5, 2)$, slope = $-\frac{1}{5}$

A) $y = \frac{4}{5}x - \frac{1}{5}$

B) $y = -\frac{4}{5}x - \frac{1}{5}$

C) $y = 3x - \frac{1}{5}$

D) $y = -\frac{1}{5}x + 3$

16) through: $(4, -3)$, slope = $\frac{1}{2}$

A) $y = -5x + \frac{1}{2}$

B) $y = -\frac{1}{2}x - 5$

C) $y = 5x + \frac{1}{2}$

D) $y = \frac{1}{2}x - 5$

17) through: $(-4, 1)$, slope = $-\frac{3}{2}$

A) $y = -5x + \frac{3}{2}$

B) $y = 5x + \frac{3}{2}$

C) $y = -\frac{3}{2}x - 5$

D) $y = \frac{3}{2}x - 5$

18) through: $(-3, 1)$, slope = $-\frac{5}{8}$

A) $y = -\frac{7}{8}x - \frac{5}{8}$

B) $y = -\frac{5}{8}x - \frac{7}{8}$

C) $y = -\frac{1}{8}x - \frac{7}{8}$

D) $y = \frac{5}{8}x - \frac{7}{8}$

19) through: $(-2, 0)$, slope = $\frac{3}{2}$

A) $y = -\frac{5}{2}x + 3$

B) $y = \frac{3}{2}x + 3$

C) $y = -\frac{1}{2}x + 3$

D) $y = -\frac{3}{2}x + 3$

20) through: $(-4, -4)$, slope = -4

A) $y = 4x - 4$

B) $y = -4x - 20$

C) $y = -4x - 4$

D) $y = -20x - 4$

21) through: $(-4, 0)$, slope = $-\frac{1}{4}$

A) $y = -x + \frac{1}{4}$

B) $y = \frac{1}{2}x + \frac{1}{4}$

C) $y = -\frac{1}{4}x - 1$

D) $y = \frac{1}{4}x - 1$

22) through: $(-4, 4)$, slope = $-\frac{2}{3}$

A) $y = \frac{5}{3}x + \frac{4}{3}$

B) $y = -x + \frac{4}{3}$

C) $y = \frac{2}{3}x + \frac{4}{3}$

D) $y = -\frac{2}{3}x + \frac{4}{3}$

23) through: $(-4, 2)$, slope = $-\frac{5}{7}$

A) $y = \frac{6}{7}x - \frac{2}{7}$

B) $y = -\frac{5}{7}x - \frac{6}{7}$

C) $y = -\frac{6}{7}x - \frac{2}{7}$

D) $y = -\frac{2}{7}x - \frac{6}{7}$

24) through: $(-4, -2)$, slope = $-\frac{2}{5}$

A) $y = -\frac{18}{5}x + \frac{2}{5}$

B) $y = \frac{2}{5}x - \frac{18}{5}$

C) $y = -\frac{2}{5}x - \frac{18}{5}$

D) $y = -\frac{3}{5}x + \frac{2}{5}$

Answers to Assignment (ID: 6)

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

Geometry Name_____

Assignment

Date_____ Period____

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through: $(3, -3)$, slope = -1

A) $y = -1$ B) $y = \frac{1}{3}x$

C) $x = -1$ D) $y = -x$

2) through: $(-4, -2)$, slope = -3

A) $y = -14x - 3$
B) $y = -3x + 14$
C) $y = 14x - 3$
D) $y = -3x - 14$

3) through: $(-5, -5)$, slope = $\frac{9}{5}$

A) $y = x + 4$ B) $y = -4x + 4$

C) $y = -x + 4$ D) $y = \frac{9}{5}x + 4$

4) through: $(3, -2)$, slope = $-\frac{5}{3}$

A) $y = 3x - \frac{5}{3}$
B) $y = 3x + 1$
C) $y = x + 3$
D) $y = -\frac{5}{3}x + 3$

5) through: $(5, 1)$, slope = $-\frac{1}{5}$

A) $y = 2x + \frac{1}{5}$
B) $y = -2x + \frac{1}{5}$
C) $y = -\frac{1}{5}x + 2$
D) $y = \frac{1}{5}x + 2$

6) through: $(1, 4)$, slope = -1

A) $y = -x - 1$ B) $y = x - 1$

C) $y = 5x - 1$ D) $y = -x + 5$

7) through: $(-4, 1)$, slope = $\frac{3}{4}$

A) $y = \frac{3}{4}x + 4$
B) $y = -\frac{3}{4}x + 4$
C) $y = 4x - \frac{3}{4}$
D) $y = -4x - \frac{3}{4}$

8) through: $(5, -3)$, slope = $-\frac{8}{5}$

A) $y = -5x - \frac{8}{5}$
B) $y = 5x - \frac{8}{5}$
C) $y = -\frac{8}{5}x + 5$
D) $y = -\frac{8}{5}x - 5$

9) through: $(5, -2)$, slope = 0

A) $y = 5x - 2$ B) $y = -2$
C) $y = -2x + 5$ D) $y = 5x + 5$

10) through: $(3, 3)$, slope = 2

A) $y = -3x + 3$ B) $y = 3x - 3$
C) $y = -2x - 3$ D) $y = 2x - 3$

11) through: $(-3, -5)$, slope = 1

A) $y = 2x - 2$
B) $y = x - 2$
C) $y = -2x + 1$
D) $y = -2x - 2$

12) through: $(1, -2)$, slope = -1

A) $y = -x - 1$ B) $y = x - 1$
C) $y = -3x - 1$ D) $y = -x - 3$

13) through: $(4, 2)$, slope = undefined

A) $x = 4$ B) $x = 1$
C) $y = x + \frac{1}{4}$ D) $y = -\frac{1}{4}$

14) through: $(-2, 0)$, slope = $-\frac{5}{2}$

A) $y = -\frac{5}{2}x - 5$
B) $y = x - 5$
C) $y = 2x - 5$
D) $y = \frac{5}{2}x - 5$

15) through: $(-2, 5)$, slope = -2

A) $y = x + 2$ B) $y = -2x + 1$
C) $y = -x + 2$ D) $y = 2x + 1$

16) through: $(4, 2)$, slope = 0

A) $y = x + \frac{1}{2}$ B) $y = -\frac{1}{2}x + 1$
C) $y = \frac{1}{2}x + 1$ D) $y = 2$

17) through: $(3, -3)$, slope = $-\frac{5}{3}$

A) $y = \frac{5}{3}x + 2$
B) $y = 2x + \frac{5}{3}$
C) $y = -\frac{1}{3}x + 2$
D) $y = -\frac{5}{3}x + 2$

18) through: $(-4, 2)$, slope = $-\frac{1}{4}$

A) $y = \frac{1}{4}x - \frac{1}{4}$
B) $y = x - \frac{1}{4}$
C) $y = -\frac{1}{4}x + 1$
D) $y = -\frac{1}{4}x + \frac{1}{4}$

19) through: $(1, 3)$, slope = -2

A) $y = -4x - 2$
B) $y = -2x + 5$
C) $y = -5x - 2$
D) $y = 5x - 2$

20) through: $(-1, 0)$, slope = -5

A) $y = 3x - 5$ B) $y = -3x - 5$
C) $y = -5x - 5$ D) $y = 5x - 5$

21) through: $(4, -4)$, slope = $\frac{1}{8}$

A) $y = \frac{1}{4}x - \frac{9}{2}$

B) $y = \frac{1}{8}x - \frac{9}{2}$

C) $y = -\frac{1}{4}x - \frac{9}{2}$

D) $y = -\frac{1}{8}x - \frac{9}{2}$

22) through: $(-3, 1)$, slope = $\frac{2}{3}$

A) $y = -\frac{1}{3}x + 3$

B) $y = \frac{1}{3}x + 3$

C) $y = \frac{2}{3}x + 3$

D) $y = -\frac{2}{3}x + 3$

23) through: $(3, -3)$, slope = $-\frac{1}{8}$

A) $y = -\frac{1}{8}x - \frac{21}{8}$

B) $y = -\frac{21}{8}x + \frac{1}{8}$

C) $y = \frac{1}{8}x - \frac{21}{8}$

D) $y = \frac{5}{8}x - \frac{21}{8}$

24) through: $(3, 1)$, slope = $\frac{5}{4}$

A) $y = -\frac{11}{4}x - \frac{1}{4}$

B) $y = \frac{1}{4}x - \frac{11}{4}$

C) $y = \frac{5}{4}x - \frac{11}{4}$

D) $y = -\frac{1}{4}x - \frac{11}{4}$

Answers to Assignment (ID: 7)

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

Geometry Name_____

Assignment

Date_____ Period____

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through: $(3, 5)$, slope = 7

A) $y = -16x + 7$
B) $y = -2x + 7$
C) $y = 2x + 7$
D) $y = 7x - 16$

2) through: $(2, -4)$, slope = -4

A) $y = 4x + 3$ B) $y = -4x + 4$
C) $y = 4x + 4$ D) $y = 3x + 4$

3) through: $(2, 1)$, slope = $\frac{1}{2}$

A) $y = -\frac{3}{2}x$ B) $y = -\frac{3}{2}$
C) $y = \frac{3}{2}x$ D) $y = \frac{1}{2}x$

4) through: $(-3, 0)$, slope = 1

A) $y = x + 3$ B) $y = 3x + 1$
C) $y = -3x + 1$ D) $y = 5x + 1$

5) through: $(2, 3)$, slope = $\frac{2}{5}$

A) $y = \frac{1}{5}x + \frac{11}{5}$
B) $y = \frac{2}{5}x + \frac{11}{5}$
C) $y = -\frac{1}{5}x + \frac{11}{5}$
D) $y = x + \frac{11}{5}$

6) through: $(2, 2)$, slope = $\frac{3}{5}$

A) $y = \frac{1}{5}x + \frac{3}{5}$
B) $y = \frac{4}{5}x + \frac{3}{5}$
C) $y = \frac{3}{5}x + \frac{4}{5}$
D) $y = -\frac{4}{5}x + \frac{3}{5}$

7) through: $(5, -4)$, slope = $-\frac{7}{5}$

A) $y = -3x - \frac{7}{5}$
B) $y = x - \frac{7}{5}$
C) $y = 3x - \frac{7}{5}$
D) $y = -\frac{7}{5}x + 3$

8) through: $(3, 1)$, slope = -1

A) $y = -x - 1$ B) $y = -x + 4$
C) $y = 4x - 1$ D) $y = -3x - 1$

9) through: $(-1, -1)$, slope = 5

A) $y = 2x + 4$ B) $y = 5x + 4$
C) $y = x + 4$ D) $y = -x + 4$

10) through: $(1, 2)$, slope = undefined

A) $x = -1$ B) $x = 1$

C) $y = \frac{1}{3}$ D) $y = -\frac{1}{3}$

11) through: $(-4, -5)$, slope = $\frac{5}{2}$

A) $y = \frac{5}{2}x + 5$ B) $y = 5x - 2$

C) $y = 3x - 2$ D) $y = -2x + 5$

12) through: $(-4, -5)$, slope = $\frac{4}{9}$

A) $y = -\frac{2}{9}x + \frac{4}{9}$

B) $y = \frac{4}{9}x - \frac{29}{9}$

C) $y = -\frac{1}{9}x + \frac{4}{9}$

D) $y = -\frac{29}{9}x + \frac{4}{9}$

13) through: $(1, -1)$, slope = 3

A) $y = -3x - 4$ B) $y = 3x - 4$

C) $y = -4x - 3$ D) $y = 4x - 3$

14) through: $(-3, 5)$, slope = -3

A) $y = -5x - 3$

B) $y = -3x - 4$

C) $y = 5x - 3$

D) $y = -4x - 3$

15) through: $(-5, 2)$, slope = -1

A) $y = x - 3$ B) $y = -x - 3$

C) $y = -3x - 1$ D) $y = 3x - 1$

16) through: $(-3, 1)$, slope = $-\frac{1}{3}$

A) $y = x$ B) $y = -\frac{1}{3}x$

C) $y = \frac{2}{3}x$ D) $y = -x$

17) through: $(1, 4)$, slope = 3

A) $y = -2x + 3$ B) $y = x + 3$

C) $y = 3x + 1$ D) $y = 3x - 2$

18) through: $(-1, 4)$, slope = -6

A) $y = -6x - 2$

B) $y = 2x - 6$

C) $y = -2x - 6$

D) $y = -5x - 6$

19) through: $(0, -1)$, slope = undefined

A) $y = 5x$ B) $x = 0$

C) $y = 4x$ D) $y = 0$

20) through: $(-2, -1)$, slope = 1

A) $y = x + 1$ B) $y = x - 3$

C) $y = -3x + 1$ D) $y = 3x + 1$

21) through: $(-3, 0)$, slope = $-\frac{2}{3}$

A) $y = 2x + \frac{2}{3}$

B) $y = -\frac{2}{3}x - 2$

C) $y = \frac{2}{3}x - 2$

D) $y = -2x + \frac{2}{3}$

22) through: $(2, 3)$, slope = $\frac{1}{2}$

A) $y = \frac{1}{2}x + 2$ B) $y = x + 2$

C) $y = -2x + 2$ D) $y = -x + 2$

23) through: $(-3, -5)$, slope = 3

A) $y = 3x + 4$ B) $y = 2x + 4$

C) $y = -x + 4$ D) $y = -2x + 4$

24) through: $(-5, -4)$, slope = $\frac{6}{5}$

A) $y = \frac{2}{5}x + 2$

B) $y = -\frac{2}{5}x + 2$

C) $y = -\frac{6}{5}x + 2$

D) $y = \frac{6}{5}x + 2$

Answers to Assignment (ID: 8)

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

Geometry Name_____

Assignment

Date_____ Period____

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through: $(-2, -2)$, slope = 1

A) $x = -1$ B) $y = 1$
C) $y = x$ D) $x = 1$

2) through: $(-1, -4)$, slope = undefined

A) $y = 1$ B) $y = x$
C) $x = -1$ D) $y = -x$

3) through: $(1, -2)$, slope = 3

A) $y = 3x - 5$ B) $y = -4x - 5$
C) $y = -2x - 5$ D) $y = 2x - 5$

4) through: $(-1, 3)$, slope = 3

A) $y = 3x + 6$ B) $y = 6x - 1$
C) $y = -x + 6$ D) $y = x + 6$

5) through: $(-2, -3)$, slope = $\frac{1}{2}$

A) $y = \frac{1}{2}x - 2$ B) $y = -2x - 2$
C) $y = 3x - 2$ D) $y = 2x - 2$

6) through: $(-2, -1)$, slope = 0

A) $y = -x + 1$ B) $y = x + 1$
C) $y = -1$ D) $y = -x$

7) through: $(-3, -2)$, slope = 1

A) $y = x + 1$ B) $y = -x + 1$
C) $y = x - 1$ D) $y = -3x - 1$

8) through: $(-2, -5)$, slope = $\frac{2}{3}$

A) $y = \frac{2}{3}x - \frac{11}{3}$
B) $y = -x - \frac{11}{3}$
C) $y = -\frac{2}{3}x - \frac{11}{3}$
D) $y = x - \frac{11}{3}$

9) through: $(-3, -5)$, slope = -3

A) $y = 3x - 14$
B) $y = -4x - 14$
C) $y = -3x - 14$
D) $y = 5x - 14$

10) through: $(-2, 2)$, slope = $-\frac{1}{2}$

A) $y = \frac{3}{2}x - \frac{1}{2}$
B) $y = -\frac{1}{2}x + 1$
C) $y = x - \frac{1}{2}$
D) $y = -\frac{1}{2}x + \frac{3}{2}$

11) through: $(1, -3)$, slope = -6

A) $y = -6x + 3$
B) $y = 6x + 3$
C) $y = 3x - 4$

12) through: $(2, -3)$, slope = $-\frac{5}{2}$

A) $y = 2x + \frac{5}{2}$

B) $y = -\frac{5}{2}x + \frac{5}{2}$

C) $y = -\frac{5}{2}x + 2$

D) $y = \frac{5}{2}x + 2$

13) through: $(5, 1)$, slope = $-\frac{3}{5}$

A) $y = -\frac{3}{5}x + 4$

B) $y = -\frac{2}{5}x - \frac{3}{5}$

C) $y = \frac{2}{5}x - \frac{3}{5}$

D) $y = 4x - \frac{3}{5}$

14) through: $(2, -2)$, slope = $-\frac{7}{2}$

A) $y = \frac{5}{2}x + 5$

B) $y = \frac{7}{2}x + 5$

C) $y = 5x - \frac{7}{2}$

D) $y = -\frac{7}{2}x + 5$

15) through: $(-2, 5)$, slope = -5

A) $y = 5x + 5$

B) $y = 5x - 5$

C) $y = -5x + 5$

D) $y = -5x - 5$

16) through: $(-2, 0)$, slope = $-\frac{2}{7}$

A) $y = \frac{1}{7}x - \frac{4}{7}$

B) $y = -\frac{4}{7}x - \frac{2}{7}$

C) $y = \frac{5}{7}x - \frac{2}{7}$

D) $y = -\frac{2}{7}x - \frac{4}{7}$

17) through: $(-3, -5)$, slope = $\frac{8}{3}$

A) $y = \frac{8}{3}x + 3$

B) $y = \frac{2}{3}x + 3$

C) $y = -\frac{8}{3}x + 3$

D) $y = -\frac{2}{3}x + 3$

18) through: $(-5, 1)$, slope = $-\frac{6}{5}$

A) $y = -x - 5$

B) $y = \frac{4}{5}x - 5$

C) $y = x - 5$

D) $y = -\frac{6}{5}x - 5$

19) through: $(-3, 0)$, slope = -1

A) $y = -x - 3$

B) $y = 5x - 3$

C) $y = x - 3$

D) $y = -3x + 1$

20) through: $(-4, 4)$, slope = -2

A) $y = -4x - 2$

B) $y = 5x - 2$

C) $y = 3x - 2$

21) through: $(4, -3)$, slope = $\frac{1}{4}$

A) $y = -4x - \frac{5}{4}$

B) $y = \frac{5}{4}x - 4$

C) $y = -\frac{5}{4}x - 4$

D) $y = \frac{1}{4}x - 4$

22) through: $(2, 3)$, slope = 2

A) $y = -x + 2$ B) $y = 2x - 1$

C) $y = -x - 1$ D) $y = x - 1$

23) through: $(-2, -1)$, slope = $\frac{1}{2}$

A) $y = \frac{1}{2}x$ B) $y = -\frac{1}{2}x$

C) $y = -2x$ D) $y = 2x$

24) through: $(5, -3)$, slope = $-\frac{1}{5}$

A) $y = -\frac{3}{5}x - \frac{1}{5}$

B) $y = -2x - \frac{1}{5}$

C) $y = -\frac{1}{5}x - 2$

D) $y = \frac{3}{5}x - \frac{1}{5}$

Answers to Assignment (ID: 9)

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

Geometry Name_____

Assignment

Date_____ Period____

Write the slope-intercept form of the equation of the line through the given point with the given slope.

1) through: $(-4, -4)$, slope = 1

A) $y = -2x$ B) $y = x$
C) $y = -x$ D) $y = 5x$

2) through: $(-2, 3)$, slope = 0

A) $y = 2x + 3$ B) $y = 5x + 3$
C) $y = -5x + 3$ D) $y = 3$

3) through: $(4, 2)$, slope = $\frac{1}{4}$

A) $y = \frac{3}{4}x + 1$
B) $y = -\frac{3}{4}x + 1$
C) $y = x + 1$
D) $y = \frac{1}{4}x + 1$

4) through: $(5, 2)$, slope = $-\frac{1}{5}$

A) $y = 3x - \frac{1}{5}$
B) $y = -3x - \frac{1}{5}$
C) $y = -\frac{1}{5}x + 3$
D) $y = -\frac{1}{5}x - 3$

5) through: $(-5, -5)$, slope = $\frac{6}{5}$

A) $y = \frac{6}{5}x + 1$
B) $y = -\frac{1}{5}x + 1$
C) $y = -\frac{6}{5}x + 1$
D) $y = x - \frac{1}{5}$

6) through: $(2, -3)$, slope = $-\frac{7}{2}$

A) $y = -\frac{7}{2}x + 4$
B) $y = -4x + \frac{7}{2}$
C) $y = \frac{7}{2}x + 4$
D) $y = 4x + \frac{7}{2}$

7) through: $(4, -5)$, slope = $-\frac{9}{4}$

A) $y = 4x - \frac{9}{4}$
B) $y = -\frac{9}{4}x + 4$
C) $y = \frac{9}{4}x + 4$
D) $y = 4x + \frac{9}{4}$

8) through: $(-4, 1)$, slope = 1

A) $y = x + 5$ B) $y = -4x + 5$
C) $y = -5x + 5$ D) $y = -x + 5$

9) through: $(5, 3)$, slope = undefined

A) $y = \frac{3}{2}x$ B) $x = 5$
C) $y = 5$ D) $y = 5$

10) through: $(0, 5)$, slope = undefined

A) $y = 0$ B) $y = -\frac{1}{2}x$
C) $y = -\frac{3}{2}x$ D) $x = 0$

11) through: $(5, 0)$, slope = 2

A) $y = 2x - 10$
B) $y = -10x - 5$
C) $y = 10x - 5$
D) $y = -5x - 10$

12) through: $(4, 2)$, slope = 4

A) $y = -4x - 14$
B) $y = -14x + 4$
C) $y = 4x - 14$
D) $y = 5x - 14$

13) through: $(4, 5)$, slope = 1

A) $y = -x + 1$
B) $y = -5x + 1$
C) $y = x + 1$
D) $y = 5x + 1$

14) through: $(4, 4)$, slope = 2

A) $y = 4x - 4$
B) $y = -4x - 4$
C) $y = 2x - 4$
D) $y = -5x - 4$

15) through: $(4, -2)$, slope = 3

A) $y = -14x + 3$
B) $y = -5x + 3$
C) $y = x + 3$
D) $y = 3x - 14$

16) through: $(4, -1)$, slope = $\frac{1}{5}$

A) $y = -x - \frac{9}{5}$
B) $y = \frac{1}{5}x - \frac{9}{5}$
C) $y = -\frac{1}{5}x - \frac{9}{5}$
D) $y = x - \frac{9}{5}$

17) through: $(4, -4)$, slope = $-\frac{4}{9}$

A) $y = \frac{5}{9}x - \frac{20}{9}$
B) $y = -\frac{20}{9}x + \frac{5}{9}$
C) $y = \frac{4}{9}x - \frac{20}{9}$
D) $y = -\frac{4}{9}x - \frac{20}{9}$

18) through: $(0, -2)$, slope = $-\frac{3}{2}$

A) $y = \frac{1}{2}x - 2$
B) $y = -\frac{1}{2}x - 2$
C) $y = -\frac{3}{2}x - 2$
D) $y = -2x - \frac{1}{2}$

19) through: $(5, 1)$, slope = $-\frac{1}{5}$

A) $y = \frac{4}{5}x + \frac{1}{5}$
B) $y = -\frac{1}{5}x + 2$
C) $y = \frac{1}{5}x + 2$
D) $y = 2x + \frac{1}{5}$

20) through: $(3, -2)$, slope = $-\frac{4}{3}$

A) $y = -\frac{4}{3}x + 2$
B) $y = 2x + \frac{5}{3}$
C) $y = -\frac{5}{3}x + 2$
D) $y = \frac{5}{3}x + 2$

21) through: $(-2, 3)$, slope = $\frac{1}{2}$

A) $y = 4x + \frac{1}{2}$

B) $y = \frac{5}{2}x + \frac{1}{2}$

C) $y = \frac{1}{2}x + 4$

D) $y = -4x + \frac{1}{2}$

22) through: $(1, 4)$, slope = 9

A) $y = -9x - 5$

B) $y = 9x - 5$

C) $y = 5x - 5$

D) $y = -5x - 5$

23) through: $(-4, 0)$, slope = $\frac{5}{4}$

A) $y = -\frac{5}{2}x + 5$

B) $y = \frac{5}{4}x + 5$

C) $y = \frac{1}{2}x + 5$

D) $y = -\frac{1}{2}x + 5$

24) through: $(5, -4)$, slope = $-\frac{9}{5}$

A) $y = -\frac{2}{5}x + \frac{9}{5}$

B) $y = 5x + \frac{9}{5}$

C) $y = \frac{9}{5}x + 5$

D) $y = -\frac{9}{5}x + 5$

Answers to Assignment (ID: 10)

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