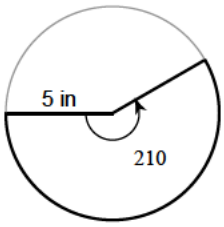
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

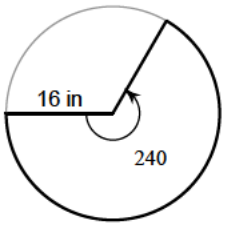
1)



A) $\frac{35\pi}{6}$ in^2 B) $\frac{175\pi}{12}$ in^2

C) $\frac{16\pi}{3}$ in^2 D) $\frac{343\pi}{3}$ in^2

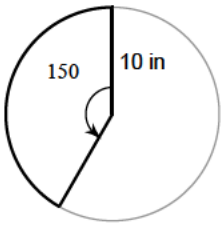
2)



A) $\frac{5\pi}{3}$ in^2 B) 256π in^2

C) $\frac{40\pi}{3}$ in^2 D) $\frac{512\pi}{3}$ in^2

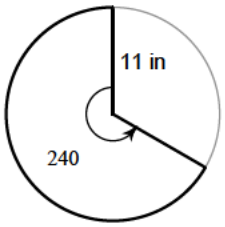
3)



A) $\frac{8\pi}{3}$ in^2 B) $\frac{125\pi}{3}$ in^2

C) $\frac{343\pi}{8}$ in^2 D) $\frac{25\pi}{3}$ in^2

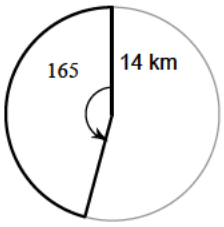
4)



A) $\frac{242\pi}{3}$ in^2 B) $\frac{70\pi}{3}$ in^2

C) $\frac{14\pi}{3}$ in^2 D) $\frac{169\pi}{12}$ in^2

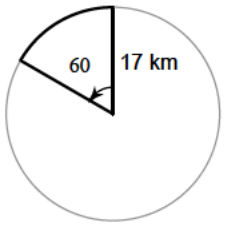
5)



A) 6π km^2 B) $\frac{539\pi}{6}$ km^2

C) 4620π km^2 D) 32340π km^2

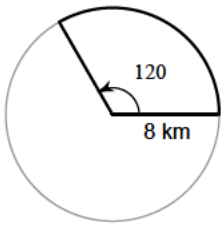
6)



A) $\frac{800\pi}{3}$ km^2 B) $\frac{289\pi}{6}$ km^2

C) $\frac{51\pi}{2}$ km^2 D) $\frac{91\pi}{12}$ km^2

7)



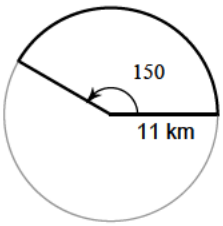
A) $\frac{64\pi}{3}$ km²

B) 7680π km²

C) 691200π km²

D) $\frac{92004352\pi}{9}$ km²

8)



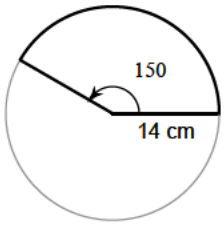
A) $\frac{161\pi}{6}$ km²

B) $\frac{1083\pi}{4}$ km²

C) $\frac{605\pi}{12}$ km²

D) $\frac{8303\pi}{24}$ km²

9)



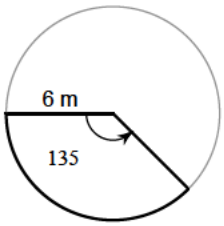
A) $\frac{91\pi}{12}$ cm²

B) $\frac{845\pi}{12}$ cm²

C) $\frac{245\pi}{3}$ cm²

D) $\frac{35\pi}{3}$ cm²

10)



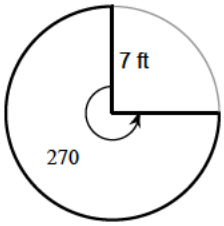
A) $\frac{9\pi}{2}$ m²

B) $\frac{49\pi}{6}$ m²

C) 1620π m²

D) $\frac{27\pi}{2}$ m²

11)



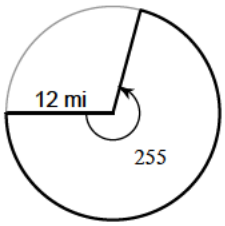
A) 15π ft²

B) $\frac{21\pi}{2}$ ft²

C) 3780π ft²

D) $\frac{147\pi}{4}$ ft²

12)



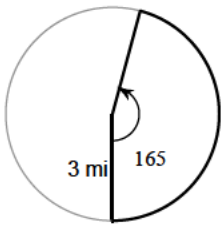
A) 24π mi²

B) $\frac{243\pi}{8}$ mi²

C) $\frac{25\pi}{6}$ mi²

D) 102π mi²

13)



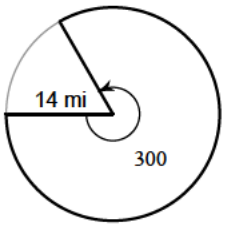
A) $\frac{33\pi}{8}$ mi²

B) 9π mi²

C) 6π mi²

D) $\frac{23\pi}{4}$ mi²

14)



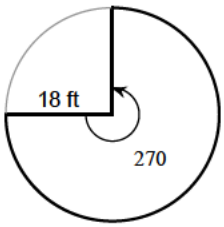
A) $\frac{637\pi}{24}$ mi²

B) 58800π mi²

C) $\frac{490\pi}{3}$ mi²

D) 30π mi²

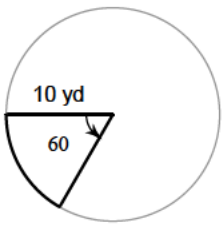
15)



A) $\frac{375\pi}{4}$ ft² B) 243π ft²

C) 50π ft² D) 28π ft²

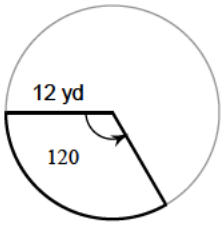
16)



A) $\frac{143\pi}{6}$ yd² B) $\frac{10\pi}{3}$ yd²

C) $\frac{77\pi}{12}$ yd² D) $\frac{50\pi}{3}$ yd²

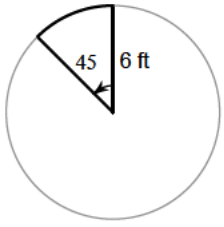
17)



A) $\frac{17\pi}{3}$ yd² B) $\frac{25\pi}{6}$ yd²

C) 48π yd² D) 2880π yd²

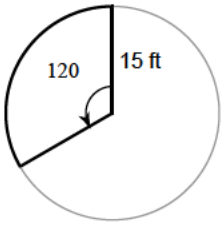
18)



A) $\frac{175\pi}{3}$ ft² B) $\frac{9\pi}{2}$ ft²

C) $\frac{26\pi}{3}$ ft² D) $\frac{3\pi}{2}$ ft²

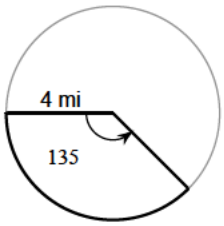
19)



A) 10π ft² B) $\frac{7\pi}{4}$ ft²

C) 75π ft² D) $\frac{65\pi}{12}$ ft²

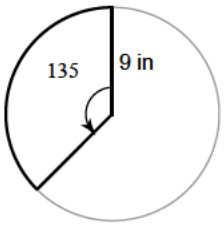
20)



A) $\frac{7\pi}{2}$ mi² B) $\frac{95\pi}{12}$ mi²

C) 6π mi² D) 8π mi²

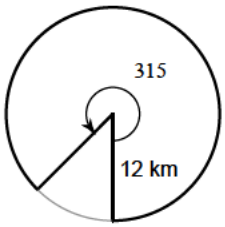
21)



A) $\frac{289\pi}{8}$ in² B) $\frac{65\pi}{6}$ in²

C) $\frac{297\pi}{8}$ in² D) $\frac{243\pi}{8}$ in²

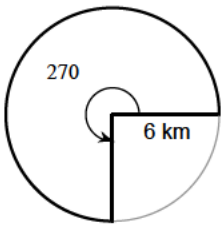
22)



A) 24π km² B) $\frac{3971\pi}{12}$ km²

C) $\frac{3\pi}{2}$ km² D) 126π km²

23)



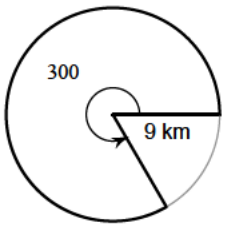
A) $\frac{1275\pi}{8}$ km²

B) 27π km²

C) $\frac{35\pi}{6}$ km²

D) 36π km²

24)



A) 16π km²

B) 5400π km²

C) $\frac{650\pi}{3}$ km²

D) $\frac{135\pi}{2}$ km²

Answers to Assignment (ID: 1)

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

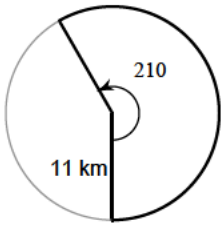
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

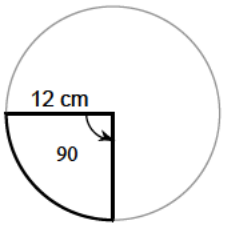
1)



A) $\frac{8\pi}{3}$ km² B) $\frac{847\pi}{12}$ km²

C) 8π km² D) 22π km²

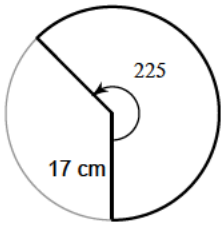
2)



A) $\frac{57\pi}{4}$ cm² B) $\frac{11\pi}{4}$ cm²

C) 12960π cm² D) 36π cm²

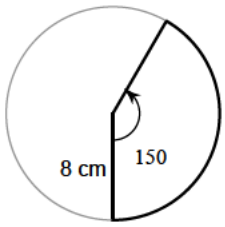
3)



A) $\frac{33\pi}{8}$ cm² B) $\frac{1445\pi}{8}$ cm²

C) $\frac{85\pi}{4}$ cm² D) $\frac{70\pi}{3}$ cm²

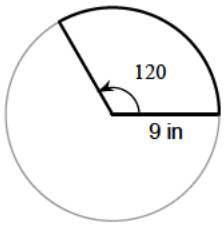
4)



A) $\frac{80\pi}{3}$ cm² B) 16π cm²

C) 3π cm² D) 64π cm²

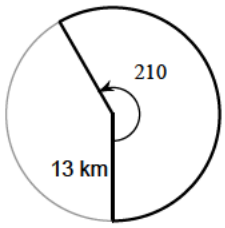
5)



A) 27π in² B) $\frac{14\pi}{3}$ in²

C) $\frac{11\pi}{6}$ in² D) 120π in²

6)



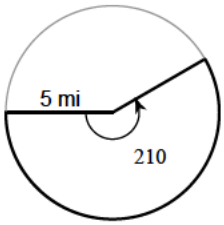
A) 1965600π km²

B) $\frac{85\pi}{4}$ km²

C) $\frac{45\pi}{4}$ km²

D) $\frac{1183\pi}{12}$ km²

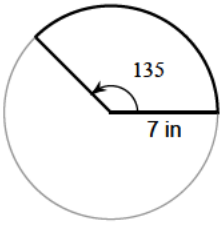
7)



A) $\frac{175\pi}{12}$ mi² B) $\frac{40\pi}{3}$ mi²

C) $\frac{35\pi}{6}$ mi² D) $\frac{17\pi}{2}$ mi²

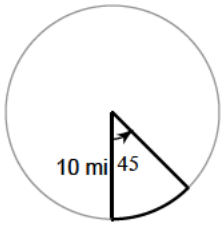
8)



A) $\frac{63\pi}{2}$ in² B) $\frac{147\pi}{8}$ in²

C) $\frac{15\pi}{2}$ in² D) $\frac{16\pi}{3}$ in²

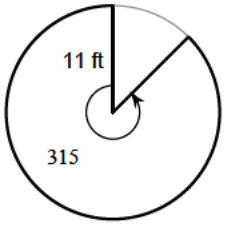
9)



A) π mi² B) $\frac{25\pi}{2}$ mi²

C) $\frac{57\pi}{2}$ mi² D) $\frac{5\pi}{2}$ mi²

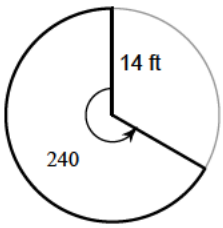
10)



A) $\frac{847\pi}{8}$ ft² B) $\frac{49\pi}{2}$ ft²

C) 98π ft² D) $\frac{77\pi}{4}$ ft²

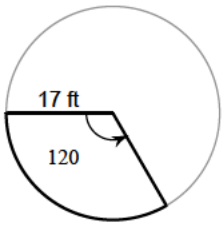
11)



A) $\frac{56\pi}{3}$ ft² B) $\frac{243\pi}{8}$ ft²

C) $\frac{392\pi}{3}$ ft² D) 126π ft²

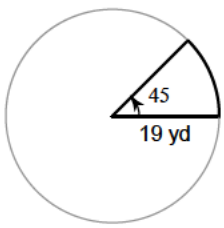
12)



A) $\frac{289\pi}{3}$ ft² B) $\frac{75\pi}{2}$ ft²

C) 289π ft² D) $\frac{25\pi}{4}$ ft²

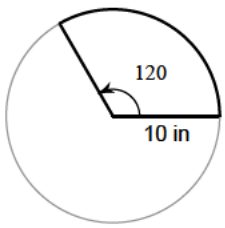
13)



A) $\frac{125\pi}{12}$ yd² B) $\frac{19\pi}{4}$ yd²

C) $\frac{297\pi}{8}$ yd² D) $\frac{361\pi}{8}$ yd²

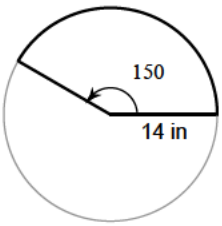
14)



A) $\frac{100\pi}{3}$ in² B) $\frac{605\pi}{12}$ in²

C) $\frac{133\pi}{6}$ in² D) 23π in²

15)



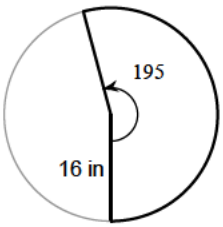
A) $\frac{35\pi}{3}$ in^2

B) $\frac{38\pi}{3}$ in^2

C) $\frac{4913\pi}{24}$ in^2

D) $\frac{245\pi}{3}$ in^2

16)



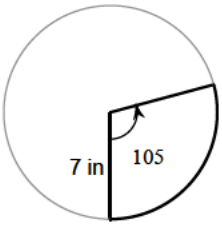
A) $\frac{416\pi}{3}$ in^2

B) $\frac{25\pi}{4}$ in^2

C) 32π in^2

D) $\frac{135\pi}{4}$ in^2

17)



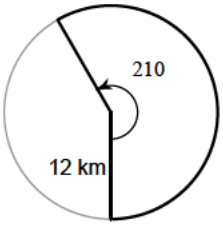
A) $\frac{500\pi}{3}$ in^2

B) 14π in^2

C) 12π in^2

D) $\frac{343\pi}{24}$ in^2

18)



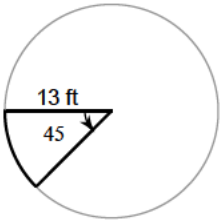
A) $\frac{32\pi}{3}$ km^2

B) $\frac{40\pi}{3}$ km^2

C) 14π km^2

D) 84π km^2

19)



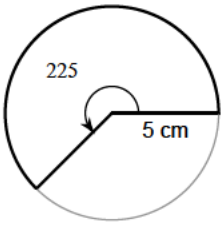
A) $\frac{13\pi}{4}$ ft^2

B) 169π ft^2

C) $\frac{169\pi}{8}$ ft^2

D) 128π ft^2

20)



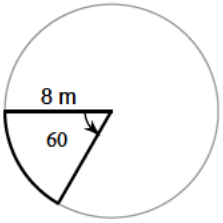
A) $\frac{125\pi}{8}$ cm^2

B) $\frac{704\pi}{3}$ cm^2

C) 25π cm^2

D) $\frac{17\pi}{6}$ cm^2

21)



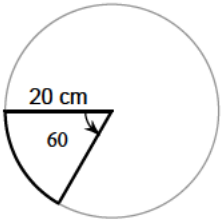
A) $\frac{32\pi}{3}$ m^2

B) $\frac{55\pi}{3}$ m^2

C) $\frac{8\pi}{3}$ m^2

D) $\frac{15\pi}{2}$ m^2

22)



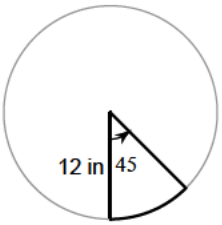
A) $\frac{405\pi}{2}$ cm^2

B) 81π cm^2

C) $\frac{200\pi}{3}$ cm^2

D) $\frac{2\pi}{3}$ cm^2

23)



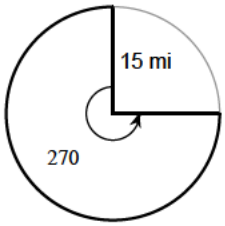
A) 18π in^2

B) $\frac{40\pi}{3}$ in^2

C) $\frac{26\pi}{3}$ in^2

D) $\frac{98\pi}{3}$ in^2

24)



A) $\frac{45\pi}{2}$ mi^2

B) $\frac{245\pi}{24}$ mi^2

C) $\frac{675\pi}{4}$ mi^2

D) $\frac{5\pi}{2}$ mi^2

Answers to Assignment (ID: 2)

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

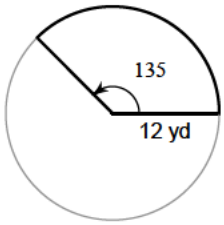
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

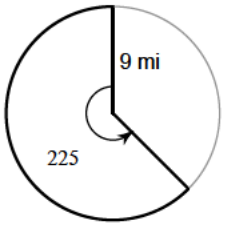
1)



A) 9π yd^2 B) 54π yd^2

C) 21π yd^2 D) $\frac{5\pi}{2}$ yd^2

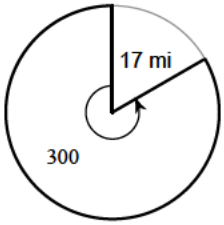
2)



A) $\frac{49\pi}{3}$ mi^2 B) $\frac{25\pi}{3}$ mi^2

C) $\frac{405\pi}{8}$ mi^2 D) $\frac{45\pi}{4}$ mi^2

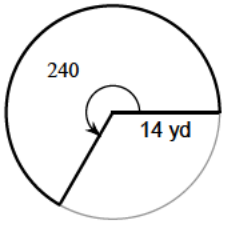
3)



A) $\frac{1445\pi}{6}$ mi^2 B) $\frac{85\pi}{3}$ mi^2

C) 10200π mi^2 D) $\frac{19\pi}{4}$ mi^2

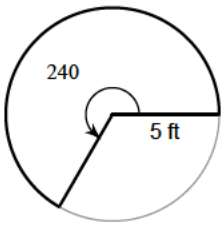
4)



A) $\frac{392\pi}{3}$ yd^2 B) 28π yd^2

C) $\frac{2527\pi}{12}$ yd^2 D) $\frac{1083\pi}{4}$ yd^2

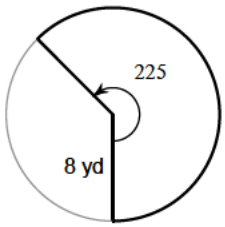
5)



A) $\frac{20\pi}{3}$ ft^2 B) $\frac{400\pi}{3}$ ft^2

C) $\frac{75\pi}{2}$ ft^2 D) $\frac{50\pi}{3}$ ft^2

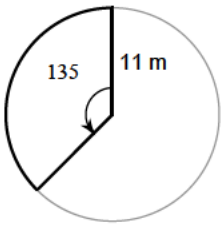
6)



A) $\frac{13\pi}{3}$ yd^2 B) $\frac{375\pi}{8}$ yd^2

C) 7π yd^2 D) 40π yd^2

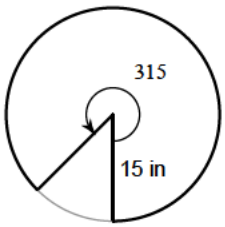
7)



A) $\frac{26\pi}{3}$ m² B) 9π m²

C) $\frac{363\pi}{8}$ m² D) $\frac{33\pi}{4}$ m²

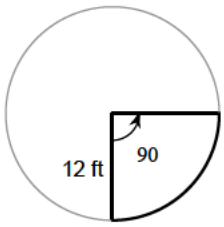
8)



A) 30π in² B) $\frac{55\pi}{12}$ in²

C) $\frac{1575\pi}{8}$ in² D) 81000π in²

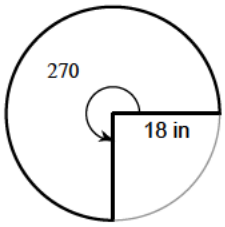
9)



A) $\frac{57\pi}{2}$ ft² B) $\frac{21\pi}{2}$ ft²

C) 36π ft² D) 6π ft²

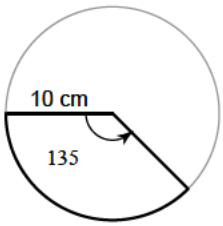
10)



A) 243π in² B) π in²

C) $\frac{91\pi}{6}$ in² D) 36π in²

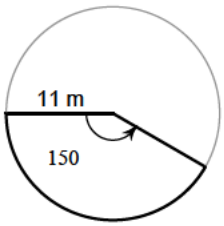
11)



A) 21π cm² B) $\frac{75\pi}{2}$ cm²

C) 96π cm² D) $\frac{15\pi}{2}$ cm²

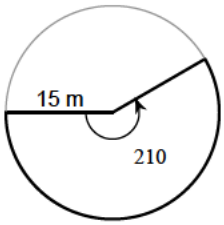
12)



A) $\frac{343\pi}{8}$ m² B) $\frac{605\pi}{12}$ m²

C) $\frac{11\pi}{6}$ m² D) $\frac{245\pi}{6}$ m²

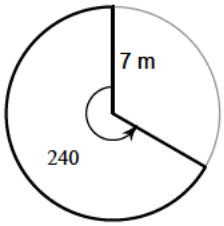
13)



A) $\frac{75\pi}{2}$ m² B) $\frac{605\pi}{24}$ m²

C) $\frac{35\pi}{2}$ m² D) $\frac{525\pi}{4}$ m²

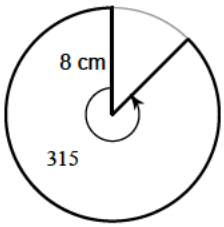
14)



A) 11760π m² B) $\frac{5\pi}{4}$ m²

C) $\frac{98\pi}{3}$ m² D) $\frac{11\pi}{3}$ m²

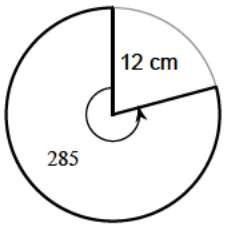
15)



A) 20160π cm² B) 56π cm²

C) $\frac{75\pi}{4}$ cm² D) 14π cm²

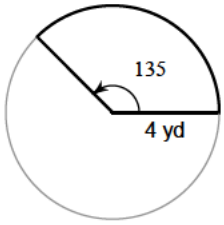
16)



A) $\frac{44\pi}{3}$ cm² B) 28π cm²

C) $\frac{7\pi}{6}$ cm² D) 114π cm²

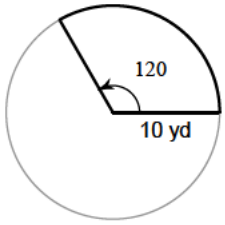
17)



A) 6π yd² B) 3π yd²

C) 14π yd² D) 1080π yd²

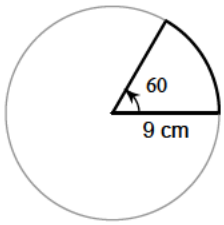
18)



A) 20π yd² B) $\frac{8\pi}{3}$ yd²

C) $\frac{20\pi}{3}$ yd² D) $\frac{100\pi}{3}$ yd²

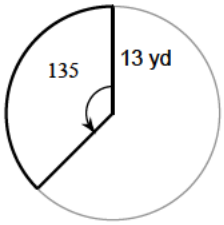
19)



A) $\frac{25\pi}{4}$ cm² B) $\frac{\pi}{3}$ cm²

C) $\frac{225\pi}{2}$ cm² D) $\frac{27\pi}{2}$ cm²

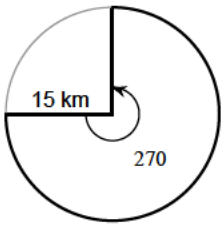
20)



A) $\frac{25\pi}{2}$ yd² B) $\frac{21\pi}{4}$ yd²

C) $\frac{507\pi}{8}$ yd² D) $\frac{11\pi}{3}$ yd²

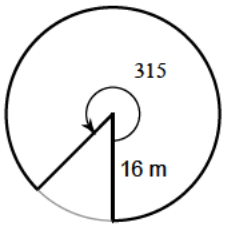
21)



A) $\frac{45\pi}{2}$ km² B) 24π km²

C) $\frac{416\pi}{3}$ km² D) $\frac{675\pi}{4}$ km²

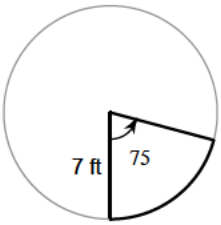
22)



A) $\frac{5\pi}{6}$ m² B) $\frac{17\pi}{12}$ m²

C) 256π m² D) 224π m²

23)



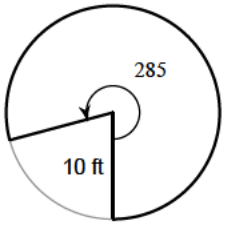
A) $\frac{40\pi}{3}$ ft²

B) 75π ft²

C) $\frac{245\pi}{24}$ ft²

D) $\frac{44\pi}{3}$ ft²

24)



A) $\frac{7\pi}{6}$ ft²

B) $\frac{475\pi}{6}$ ft²

C) $\frac{95\pi}{6}$ ft²

D) 100π ft²

Answers to Assignment (ID: 3)

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

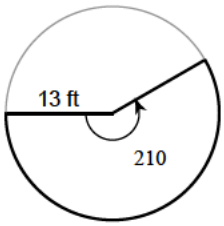
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

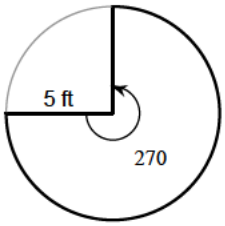
1)



A) 35490π ft² B) $\frac{52\pi}{3}$ ft²

C) $\frac{1183\pi}{12}$ ft² D) $\frac{39\pi}{2}$ ft²

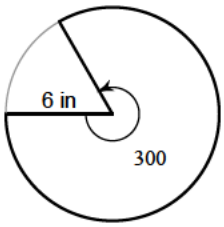
2)



A) 2700π ft² B) $\frac{75\pi}{4}$ ft²

C) $\frac{15\pi}{2}$ ft² D) 6750π ft²

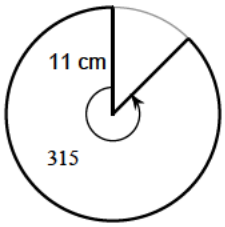
3)



A) 18π in² B) 12π in²

C) 30π in² D) $\frac{17\pi}{3}$ in²

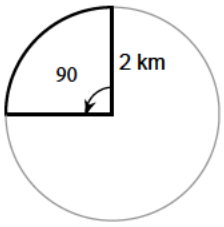
4)



A) 2π cm² B) $\frac{847\pi}{8}$ cm²

C) $\frac{128\pi}{3}$ cm² D) $\frac{77\pi}{4}$ cm²

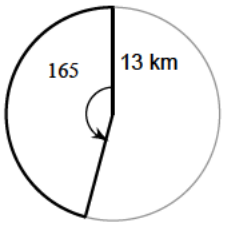
5)



A) 360π km² B) $\frac{243\pi}{2}$ km²

C) $\frac{3971\pi}{12}$ km² D) π km²

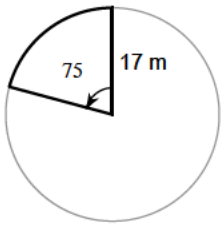
6)



A) $\frac{143\pi}{12}$ km² B) $\frac{1859\pi}{24}$ km²

C) 26π km² D) $\frac{77\pi}{6}$ km²

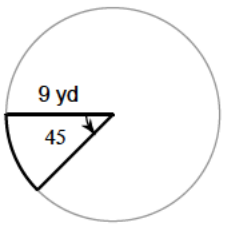
7)



A) $\frac{1445\pi}{24}$ m² B) $\frac{85\pi}{12}$ m²

C) $\frac{49\pi}{3}$ m² D) 48π m²

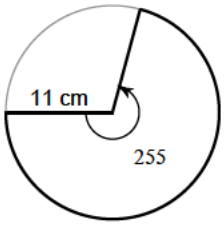
8)



A) $\frac{81\pi}{8}$ yd² B) $\frac{21\pi}{2}$ yd²

C) 12π yd² D) $\frac{5\pi}{3}$ yd²

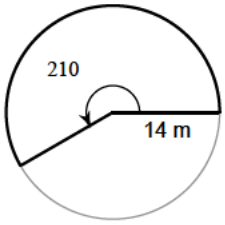
9)



A) 121π cm² B) $\frac{85\pi}{6}$ cm²

C) $\frac{2057\pi}{24}$ cm² D) $\frac{125\pi}{3}$ cm²

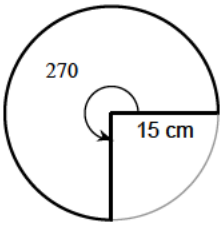
10)



A) $\frac{675\pi}{8}$ m² B) $\frac{343\pi}{3}$ m²

C) 28π m² D) $\frac{17\pi}{4}$ m²

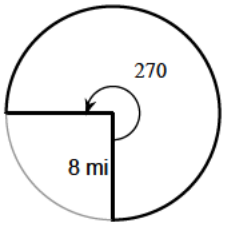
11)



A) 60750π cm² B) 17π cm²

C) $\frac{675\pi}{4}$ cm² D) $\frac{161\pi}{6}$ cm²

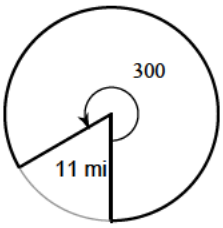
12)



A) 48π mi² B) $\frac{46\pi}{3}$ mi²

C) $\frac{289\pi}{24}$ mi² D) 12π mi²

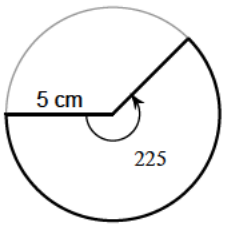
13)



A) $\frac{55\pi}{3}$ mi² B) $\frac{605\pi}{6}$ mi²

C) $\frac{25\pi}{8}$ mi² D) $\frac{275\pi}{3}$ mi²

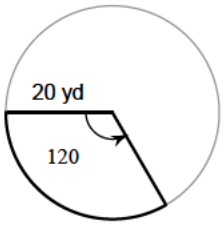
14)



A) $\frac{245\pi}{6}$ cm² B) $\frac{25\pi}{4}$ cm²

C) 9000π cm² D) $\frac{125\pi}{8}$ cm²

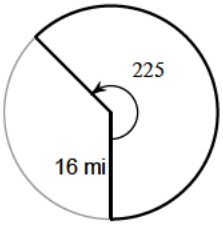
15)



A) 30π yd² B) $\frac{400\pi}{3}$ yd²

C) $\frac{40\pi}{3}$ yd² D) 270π yd²

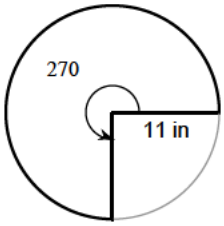
16)



A) $\frac{10\pi}{3}$ mi² B) $\frac{65\pi}{12}$ mi²

C) $\frac{200\pi}{3}$ mi² D) 160π mi²

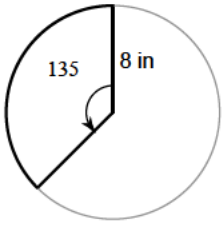
17)



A) $\frac{32\pi}{3}$ in² B) 20π in²

C) $\frac{363\pi}{4}$ in² D) $\frac{104\pi}{3}$ in²

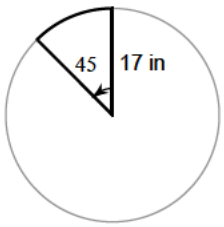
18)



A) 24π in² B) $\frac{448\pi}{3}$ in²

C) $\frac{119\pi}{4}$ in² D) 6π in²

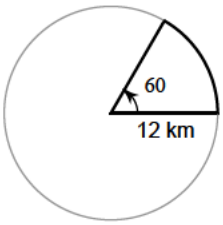
19)



A) $\frac{3\pi}{2}$ in² B) $\frac{289\pi}{8}$ in²

C) 5π in² D) 13005π in²

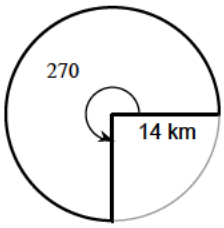
20)



A) $\frac{49\pi}{12}$ km² B) 24π km²

C) $\frac{49\pi}{2}$ km² D) $\frac{76\pi}{3}$ km²

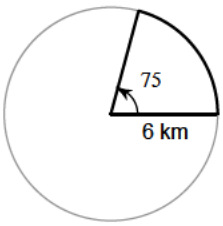
21)



A) $\frac{50\pi}{3}$ km² B) $\frac{2\pi}{3}$ km²

C) $\frac{26\pi}{3}$ km² D) 147π km²

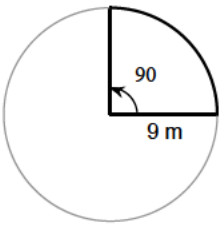
22)



A) $\frac{299\pi}{12}$ km² B) $\frac{15\pi}{2}$ km²

C) 900π km² D) 19π km²

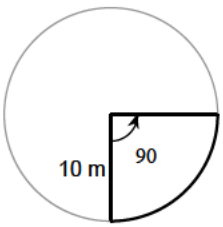
23)



A) $\frac{49\pi}{24}$ m² B) $\frac{343\pi}{6}$ m²

C) $\frac{81\pi}{4}$ m² D) $\frac{9\pi}{2}$ m²

24)



A) 2π m² B) 5π m²

C) 25π m² D) 22π m²

Answers to Assignment (ID: 4)

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

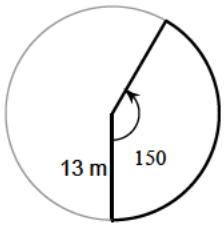
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

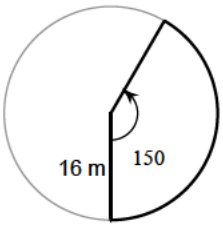
1)



A) $\frac{69\pi}{8}$ m² B) $\frac{65\pi}{6}$ m²

C) $\frac{845\pi}{12}$ m² D) 25350π m²

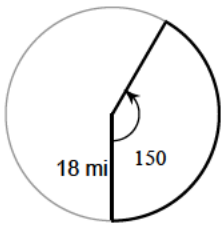
2)



A) $\frac{40\pi}{3}$ m² B) 32π m²

C) 8π m² D) $\frac{320\pi}{3}$ m²

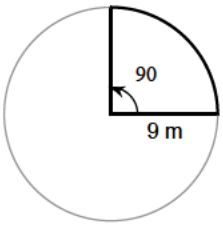
3)



A) 15π mi² B) $\frac{25\pi}{6}$ mi²

C) 135π mi² D) 4π mi²

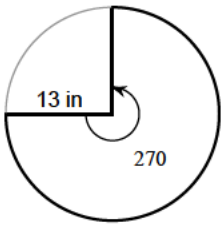
4)



A) $\frac{9\pi}{2}$ m² B) $\frac{75\pi}{4}$ m²

C) $\frac{64\pi}{3}$ m² D) $\frac{81\pi}{4}$ m²

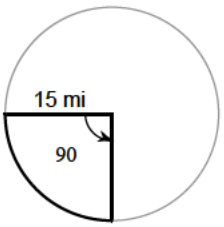
5)



A) $\frac{26\pi}{3}$ in² B) $\frac{20\pi}{3}$ in²

C) $\frac{507\pi}{4}$ in² D) 3π in²

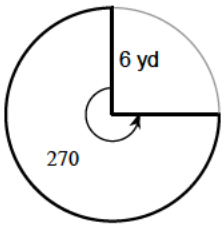
6)



A) $\frac{15\pi}{2}$ mi² B) $\frac{147\pi}{4}$ mi²

C) 11π mi² D) $\frac{225\pi}{4}$ mi²

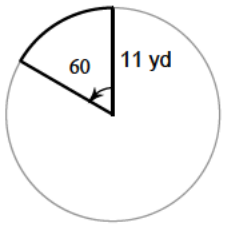
7)



A) 12π yd² B) $\frac{65\pi}{12}$ yd²

C) 27π yd² D) $\frac{5\pi}{3}$ yd²

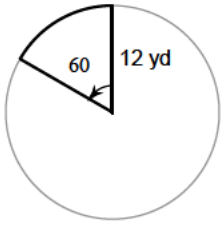
8)



A) $\frac{289\pi}{12}$ yd² B) 2π yd²

C) $\frac{121\pi}{6}$ yd² D) $\frac{85\pi}{4}$ yd²

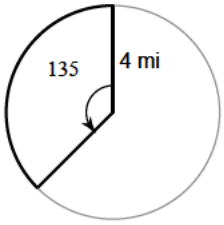
9)



A) 24π yd² B) 144π yd²

C) $\frac{253\pi}{12}$ yd² D) 4π yd²

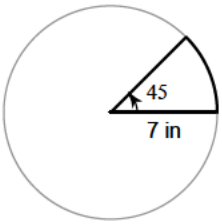
10)



A) $\frac{575\pi}{6}$ mi² B) 19π mi²

C) 6π mi² D) 300π mi²

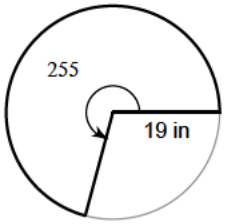
11)



A) 49π in² B) $\frac{49\pi}{8}$ in²

C) $\frac{169\pi}{12}$ in² D) $\frac{7\pi}{4}$ in²

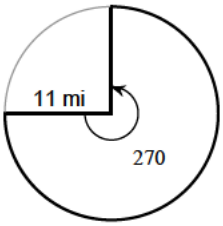
12)



A) $\frac{3\pi}{2}$ in² B) 92055π in²

C) $\frac{6137\pi}{24}$ in² D) $\frac{1183\pi}{12}$ in²

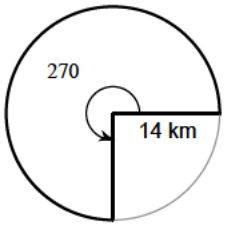
13)



A) $\frac{363\pi}{4}$ mi² B) $\frac{33\pi}{2}$ mi²

C) $\frac{25\pi}{4}$ mi² D) $\frac{224\pi}{3}$ mi²

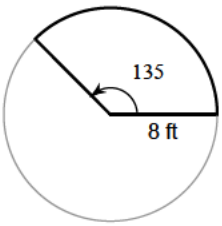
14)



A) $\frac{19\pi}{6}$ km² B) 22π km²

C) $\frac{1805\pi}{6}$ km² D) 147π km²

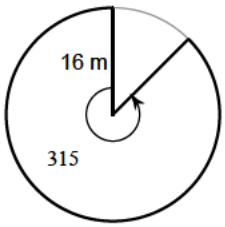
15)



A) 6π ft² B) $\frac{825\pi}{8}$ ft²

C) 24π ft² D) $\frac{119\pi}{6}$ ft²

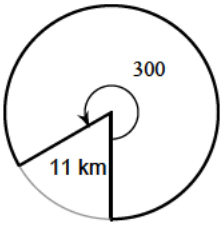
16)



A) 32π m² B) 256π m²

C) 28π m² D) 224π m²

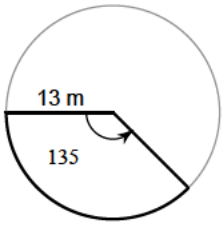
17)



A) $\frac{17\pi}{2}$ km² B) $\frac{605\pi}{6}$ km²

C) $\frac{55\pi}{3}$ km² D) 8π km²

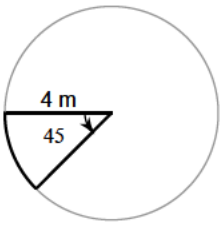
18)



A) $\frac{507\pi}{8}$ m² B) $\frac{7\pi}{4}$ m²

C) π m² D) $\frac{28\pi}{3}$ m²

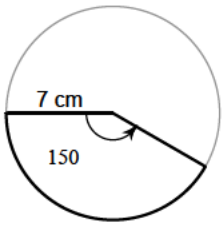
19)



A) π m² B) $\frac{19\pi}{3}$ m²

C) 2π m² D) $\frac{75\pi}{2}$ m²

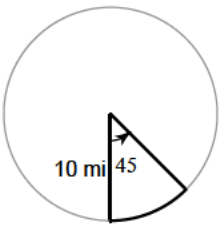
20)



A) $\frac{85\pi}{6}$ cm² B) $\frac{245\pi}{12}$ cm²

C) $\frac{57\pi}{4}$ cm² D) $\frac{17\pi}{6}$ cm²

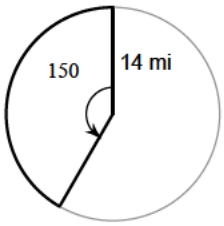
21)



A) $\frac{5\pi}{2}$ mi² B) $\frac{17\pi}{12}$ mi²

C) $\frac{25\pi}{2}$ mi² D) $\frac{125\pi}{6}$ mi²

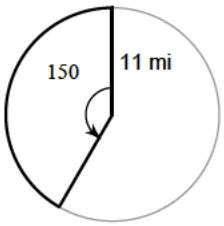
22)



A) $\frac{289\pi}{12}$ mi² B) $\frac{21\pi}{2}$ mi²

C) $\frac{245\pi}{3}$ mi² D) $\frac{40\pi}{3}$ mi²

23)



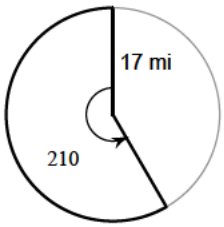
A) $\frac{845\pi}{24}$ mi²

B) $\frac{55\pi}{6}$ mi²

C) $\frac{247\pi}{12}$ mi²

D) $\frac{605\pi}{12}$ mi²

24)



A) $\frac{56\pi}{3}$ mi²

B) $\frac{119\pi}{6}$ mi²

C) $\frac{2023\pi}{12}$ mi²

D) 3π mi²

Answers to Assignment (ID: 5)

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

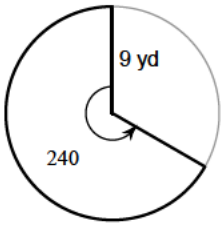
Geometry Name_____

Assignment

Date_____ Period____

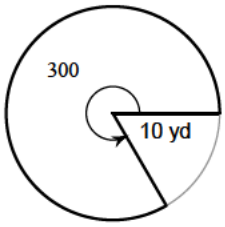
Find the area of each sector.

1)



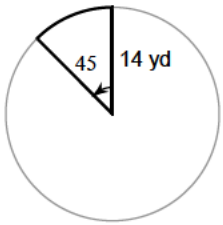
A) 18π yd² B) 12π yd²
C) 81π yd² D) 54π yd²

2)



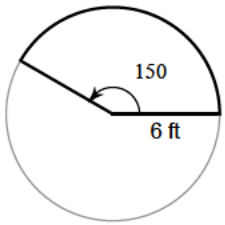
A) $\frac{250\pi}{3}$ yd² B) $\frac{50\pi}{3}$ yd²
C) $\frac{80\pi}{3}$ yd² D) 100π yd²

3)



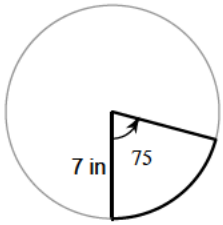
A) $\frac{13\pi}{4}$ yd² B) $\frac{49\pi}{2}$ yd²
C) $\frac{45\pi}{8}$ yd² D) $\frac{7\pi}{2}$ yd²

4)



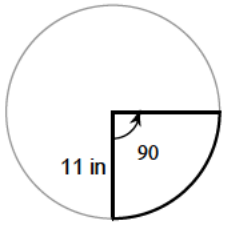
A) 10π ft² B) $\frac{33\pi}{4}$ ft²
C) 15π ft² D) 1800π ft²

5)



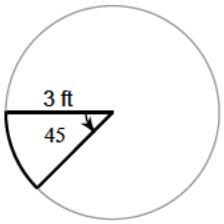
A) $\frac{245\pi}{24}$ in² B) $\frac{2023\pi}{12}$ in²
C) $\frac{35\pi}{3}$ in² D) $\frac{35\pi}{4}$ in²

6)



A) $\frac{110\pi}{3}$ in² B) $\frac{11\pi}{2}$ in²
C) 22π in² D) $\frac{121\pi}{4}$ in²

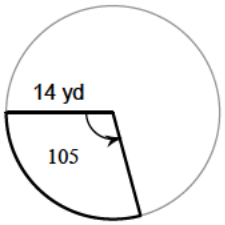
7)



A) $\frac{3\pi}{4}$ ft² B) $\frac{9\pi}{8}$ ft²

C) 270π ft² D) 100π ft²

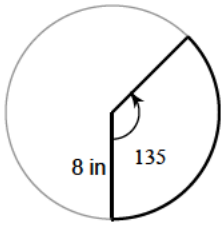
8)



A) $\frac{11\pi}{6}$ yd² B) 350π yd²

C) $\frac{69\pi}{2}$ yd² D) $\frac{343\pi}{6}$ yd²

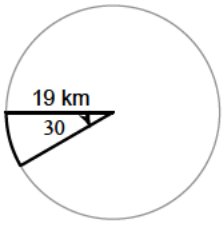
9)



A) 5π in² B) 24π in²

C) 6π in² D) $\frac{85\pi}{6}$ in²

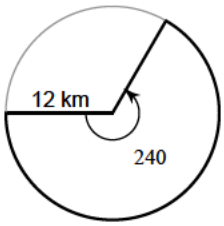
10)



A) $\frac{81\pi}{2}$ km² B) $\frac{513\pi}{2}$ km²

C) $\frac{361\pi}{12}$ km² D) 1140π km²

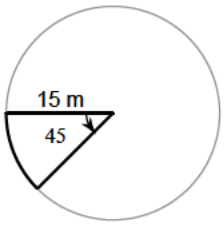
11)



A) 5760π km² B) 96π km²

C) $\frac{17\pi}{4}$ km² D) $\frac{375\pi}{2}$ km²

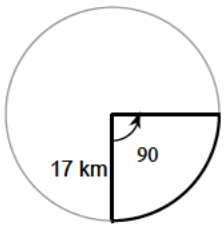
12)



A) $\frac{225\pi}{8}$ m² B) $\frac{245\pi}{12}$ m²

C) $\frac{15\pi}{4}$ m² D) $\frac{143\pi}{6}$ m²

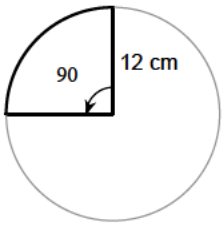
13)



A) 6π km² B) $\frac{8\pi}{3}$ km²

C) $\frac{289\pi}{4}$ km² D) $\frac{17\pi}{2}$ km²

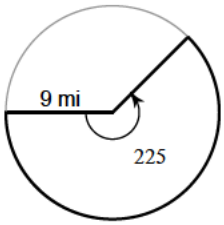
14)



A) 36π cm² B) $\frac{64\pi}{3}$ cm²

C) $\frac{1150\pi}{3}$ cm² D) $\frac{75\pi}{2}$ cm²

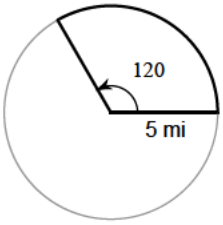
15)



A) $\frac{175\pi}{3}$ mi² B) 15π mi²

C) $\frac{45\pi}{4}$ mi² D) $\frac{405\pi}{8}$ mi²

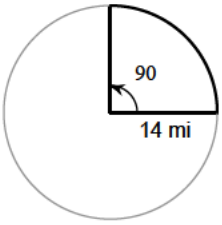
16)



A) 10π mi² B) $\frac{65\pi}{6}$ mi²

C) $\frac{25\pi}{3}$ mi² D) 3000π mi²

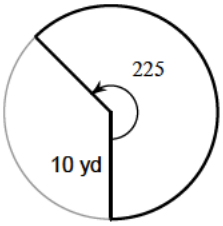
17)



A) 49π mi² B) 196π mi²

C) $\frac{5\pi}{3}$ mi² D) 17640π mi²

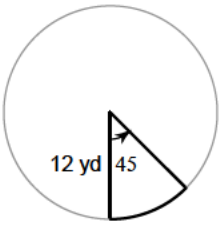
18)



A) 3π yd² B) 4π yd²

C) 75π yd² D) $\frac{125\pi}{2}$ yd²

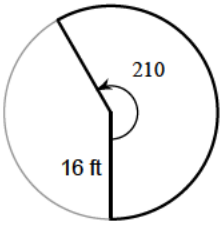
19)



A) $\frac{363\pi}{8}$ yd² B) 3π yd²

C) 8π yd² D) 18π yd²

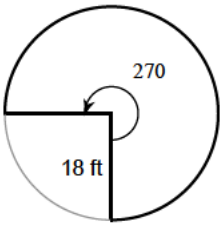
20)



A) 256π ft² B) $\frac{4693\pi}{24}$ ft²

C) $\frac{448\pi}{3}$ ft² D) 32π ft²

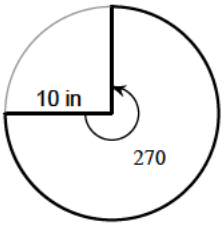
21)



A) $\frac{\pi}{3}$ ft² B) $\frac{299\pi}{12}$ ft²

C) 243π ft² D) 27π ft²

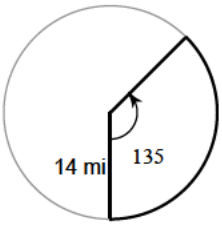
22)



A) $\frac{22\pi}{3}$ in² B) 20π in²

C) 75π in² D) 23π in²

23)



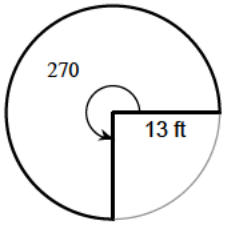
A) $\frac{68\pi}{3}$ mi²

B) $\frac{147\pi}{2}$ mi²

C) 5π mi²

D) $\frac{95\pi}{6}$ mi²

24)



A) $\frac{507\pi}{4}$ ft²

B) $\frac{169\pi}{12}$ ft²

C) $\frac{39\pi}{2}$ ft²

D) $\frac{25\pi}{24}$ ft²

Answers to Assignment (ID: 6)

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

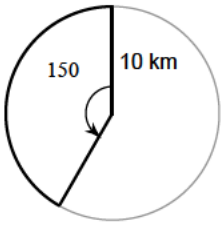
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

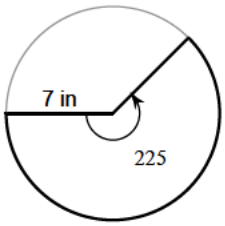
1)



A) $\frac{5\pi}{3}$ km² B) $\frac{125\pi}{3}$ km²

C) 20π km² D) $\frac{25\pi}{3}$ km²

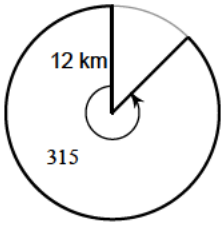
2)



A) $\frac{245\pi}{8}$ in² B) 21π in²

C) $\frac{25\pi}{4}$ in² D) 14π in²

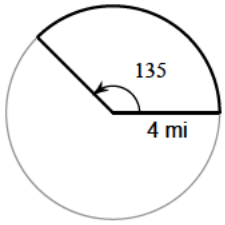
3)



A) $\frac{81\pi}{2}$ km² B) $\frac{4693\pi}{24}$ km²

C) 21π km² D) 126π km²

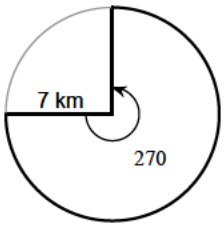
4)



A) $\frac{39\pi}{4}$ mi² B) $\frac{1125\pi}{8}$ mi²

C) $\frac{5\pi}{12}$ mi² D) 6π mi²

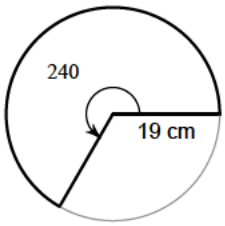
5)



A) $\frac{147\pi}{4}$ km² B) 13230π km²

C) $\frac{56\pi}{3}$ km² D) $\frac{25\pi}{6}$ km²

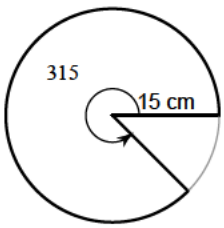
6)



A) 361π cm² B) $\frac{76\pi}{3}$ cm²

C) $\frac{722\pi}{3}$ cm² D) 5π cm²

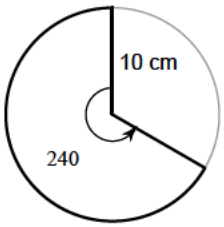
7)



A) 9450π cm² B) 7π cm²

C) $\frac{1575\pi}{8}$ cm² D) $\frac{105\pi}{4}$ cm²

8)



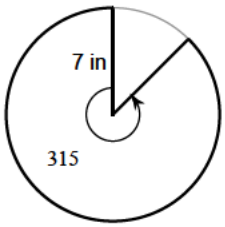
A) $\frac{80\pi}{3}$ cm²

B) 4800π cm²

C) $\frac{200\pi}{3}$ cm²

D) $\frac{40\pi}{3}$ cm²

9)



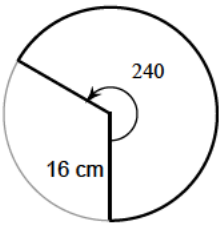
A) $\frac{21\pi}{2}$ in²

B) $\frac{343\pi}{8}$ in²

C) $\frac{9\pi}{2}$ in²

D) 20π in²

10)



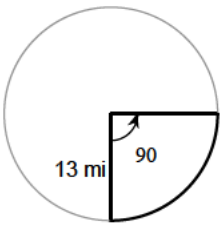
A) 61440π cm²

B) $\frac{512\pi}{3}$ cm²

C) $\frac{5\pi}{3}$ cm²

D) $\frac{21\pi}{4}$ cm²

11)



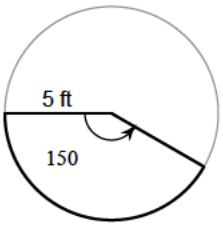
A) 21π mi²

B) $\frac{169\pi}{4}$ mi²

C) 15210π mi²

D) $\frac{85\pi}{6}$ mi²

12)



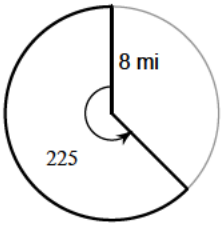
A) $\frac{125\pi}{12}$ ft²

B) 10π ft²

C) $\frac{35\pi}{3}$ ft²

D) $\frac{8\pi}{3}$ ft²

13)



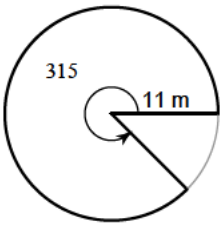
A) 14400π mi²

B) 40π mi²

C) $\frac{361\pi}{12}$ mi²

D) 10π mi²

14)



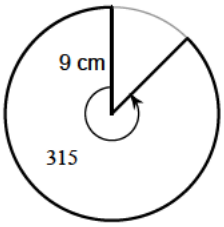
A) $\frac{15\pi}{8}$ m²

B) $\frac{25\pi}{24}$ m²

C) $\frac{847\pi}{8}$ m²

D) $\frac{28\pi}{3}$ m²

15)



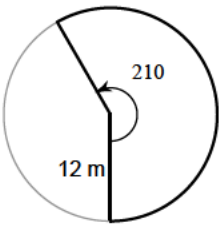
A) $\frac{14\pi}{3}$ cm²

B) 4π cm²

C) $\frac{567\pi}{8}$ cm²

D) $\frac{63\pi}{4}$ cm²

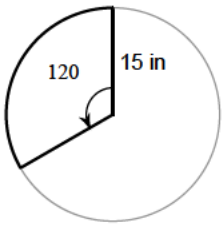
16)



A) $\frac{847\pi}{8}$ m² B) $\frac{299\pi}{12}$ m²

C) 10π m² D) 84π m²

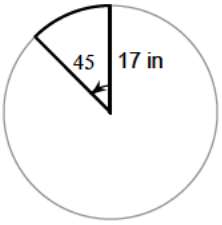
17)



A) 10π in² B) $\frac{70\pi}{3}$ in²

C) 75π in² D) 243π in²

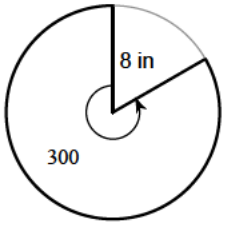
18)



A) $\frac{17\pi}{4}$ in² B) $\frac{46\pi}{3}$ in²

C) $\frac{289\pi}{8}$ in² D) 289π in²

19)



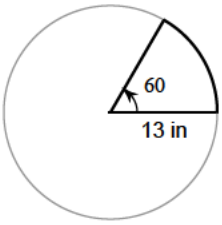
A) $\frac{169\pi}{24}$ in²

B) 19200π in²

C) $\frac{160\pi}{3}$ in²

D) $-\frac{225830912\pi}{45}$ in²

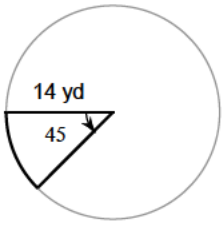
20)



A) $\frac{65\pi}{6}$ in² B) $\frac{25\pi}{2}$ in²

C) $\frac{169\pi}{6}$ in² D) $\frac{10\pi}{3}$ in²

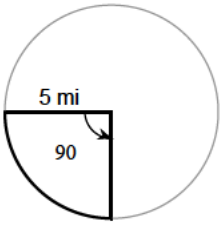
21)



A) $\frac{250\pi}{3}$ yd² B) $\frac{49\pi}{2}$ yd²

C) $\frac{49\pi}{12}$ yd² D) $\frac{7\pi}{2}$ yd²

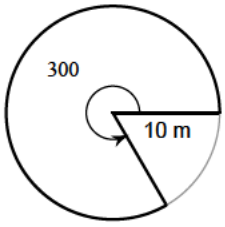
22)



A) $\frac{25\pi}{4}$ mi² B) 10π mi²

C) $\frac{5\pi}{2}$ mi² D) $\frac{25\pi}{2}$ mi²

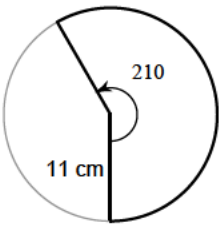
23)



A) $\frac{250\pi}{3}$ m² B) $\frac{35\pi}{12}$ m²

C) $\frac{50\pi}{3}$ m² D) 54π m²

24)



A) $\frac{77\pi}{6}$ cm²

B) $\frac{847\pi}{12}$ cm²

C) $\frac{35\pi}{4}$ cm²

D) 25410π cm²

Answers to Assignment (ID: 7)

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

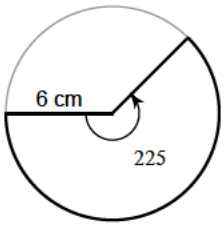
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

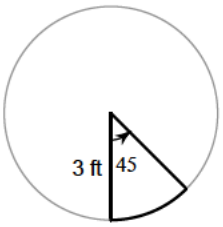
1)



A) 75π cm^2 B) $\frac{44\pi}{3}$ cm^2

C) $\frac{45\pi}{2}$ cm^2 D) $\frac{15\pi}{2}$ cm^2

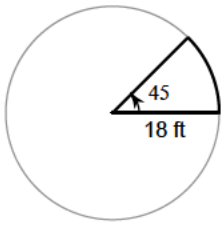
2)



A) $\frac{45\pi}{4}$ ft^2 B) $\frac{9\pi}{8}$ ft^2

C) $\frac{3\pi}{4}$ ft^2 D) $\frac{25\pi}{6}$ ft^2

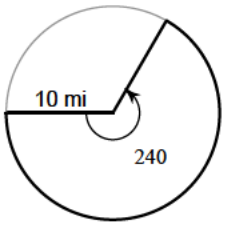
3)



A) $\frac{11\pi}{4}$ ft^2 B) $\frac{81\pi}{2}$ ft^2

C) 126π ft^2 D) 12π ft^2

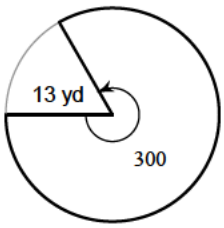
4)



A) $\frac{200\pi}{3}$ mi^2 B) $\frac{40\pi}{3}$ mi^2

C) 20π mi^2 D) $\frac{275\pi}{24}$ mi^2

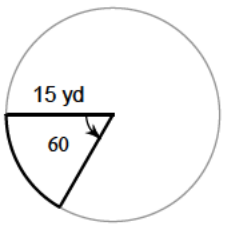
5)



A) 26π yd^2 B) $\frac{65\pi}{3}$ yd^2

C) $\frac{845\pi}{6}$ yd^2 D) $\frac{45\pi}{2}$ yd^2

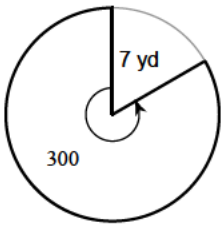
6)



A) $\frac{75\pi}{2}$ yd^2 B) 13500π yd^2

C) $\frac{7\pi}{2}$ yd^2 D) 1800π yd^2

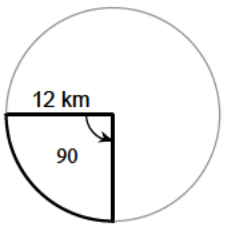
7)



A) $\frac{45\pi}{2}$ yd² B) $\frac{33\pi}{4}$ yd²

C) $\frac{100\pi}{3}$ yd² D) $\frac{245\pi}{6}$ yd²

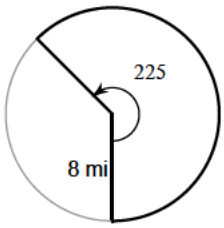
8)



A) $\frac{361\pi}{6}$ km² B) 36π km²

C) 2160π km² D) $\frac{51\pi}{4}$ km²

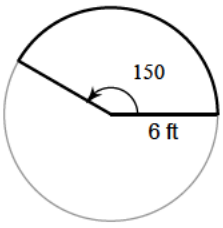
9)



A) 40π mi² B) $\frac{225\pi}{4}$ mi²

C) 10π mi² D) $\frac{14\pi}{3}$ mi²

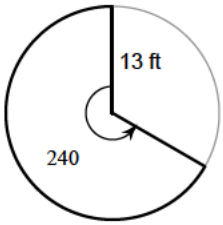
10)



A) 64π ft² B) 25π ft²

C) 15π ft² D) 5400π ft²

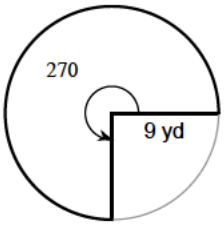
11)



A) 40560π ft² B) $\frac{338\pi}{3}$ ft²

C) $\frac{7\pi}{2}$ ft² D) $\frac{88\pi}{3}$ ft²

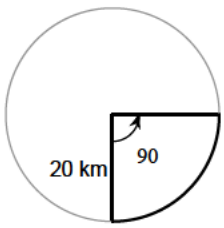
12)



A) $\frac{243\pi}{4}$ yd² B) 21870π yd²

C) 4860π yd² D) $\frac{27\pi}{2}$ yd²

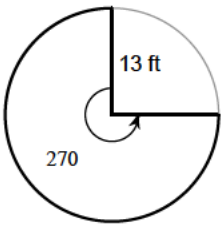
13)



A) $\frac{85\pi}{3}$ km² B) 100π km²

C) 400π km² D) 5π km²

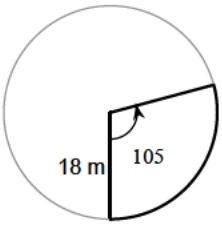
14)



A) $\frac{507\pi}{4}$ ft² B) $\frac{121\pi}{12}$ ft²

C) $\frac{39\pi}{2}$ ft² D) $\frac{27\pi}{4}$ ft²

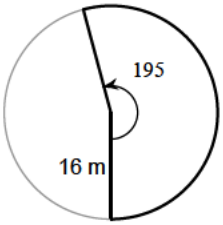
15)



A) $\frac{7\pi}{12}$ m² B) $\frac{189\pi}{2}$ m²

C) $\frac{39\pi}{4}$ m² D) $\frac{513\pi}{2}$ m²

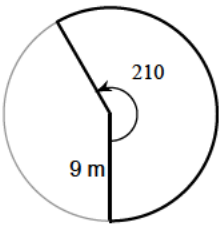
16)



A) $\frac{416\pi}{3}$ m² B) $\frac{95\pi}{4}$ m²

C) 32π m² D) $\frac{5\pi}{2}$ m²

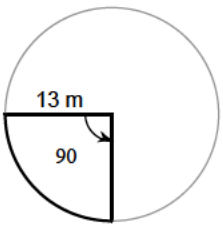
17)



A) 17010π m² B) $\frac{45\pi}{2}$ m²

C) $\frac{189\pi}{4}$ m² D) $\frac{21\pi}{2}$ m²

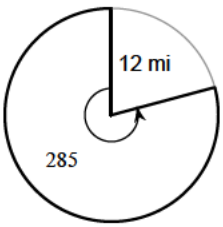
18)



A) $\frac{169\pi}{4}$ m² B) $\frac{736\pi}{3}$ m²

C) 9π m² D) $\frac{57\pi}{2}$ m²

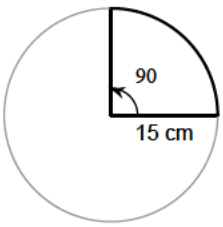
19)



A) $\frac{35\pi}{6}$ mi² B) 41040π mi²

C) 114π mi² D) 3π mi²

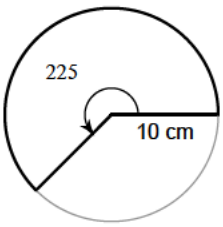
20)



A) $\frac{2197\pi}{24}$ cm² B) $\frac{15\pi}{2}$ cm²

C) 2π cm² D) $\frac{225\pi}{4}$ cm²

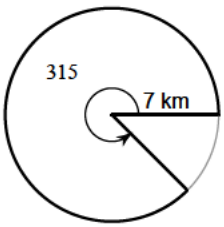
21)



A) 90π cm² B) $\frac{25\pi}{2}$ cm²

C) 4500π cm² D) $\frac{125\pi}{2}$ cm²

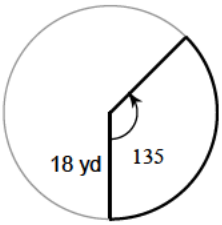
22)



A) $\frac{175\pi}{8}$ km² B) $\frac{49\pi}{4}$ km²

C) 15435π km² D) $\frac{343\pi}{8}$ km²

23)



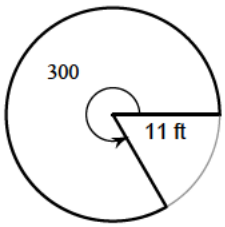
A) 324π yd^2

B) $\frac{243\pi}{2}$ yd^2

C) 36π yd^2

D) $\frac{605\pi}{24}$ yd^2

24)



A) 22π ft^2

B) $\frac{10\pi}{3}$ ft^2

C) 75π ft^2

D) $\frac{605\pi}{6}$ ft^2

Answers to Assignment (ID: 8)

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

Geometry

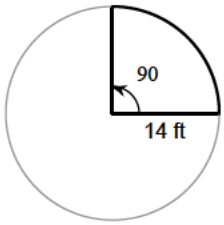
Name_____

Assignment

Date_____ Period____

Find the area of each sector.

1)



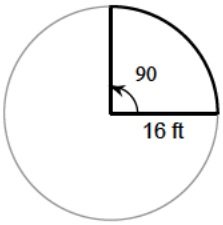
A) $\frac{55\pi}{3}$ ft²

B) 7π ft²

C) 49π ft²

D) $\frac{17\pi}{2}$ ft²

2)



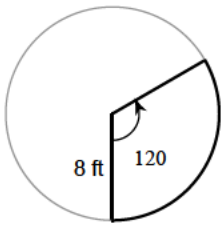
A) $\frac{7\pi}{2}$ ft²

B) 64π ft²

C) $\frac{33\pi}{8}$ ft²

D) 8π ft²

3)



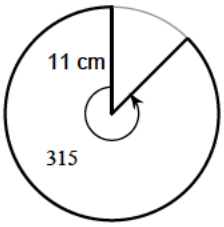
A) $\frac{3\pi}{4}$ ft²

B) $\frac{5\pi}{6}$ ft²

C) $\frac{25\pi}{3}$ ft²

D) $\frac{64\pi}{3}$ ft²

4)



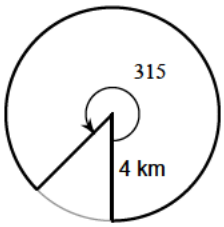
A) $\frac{847\pi}{8}$ cm²

B) $\frac{77\pi}{4}$ cm²

C) $\frac{5\pi}{2}$ cm²

D) $\frac{23\pi}{6}$ cm²

5)



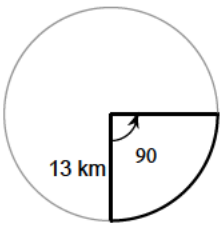
A) $\frac{33\pi}{2}$ km²

B) 5040π km²

C) 14π km²

D) 7π km²

6)



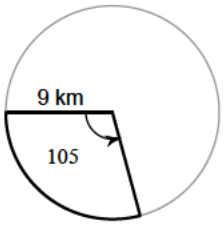
A) $\frac{77\pi}{4}$ km²

B) 3π km²

C) $\frac{169\pi}{4}$ km²

D) $\frac{7\pi}{3}$ km²

7)



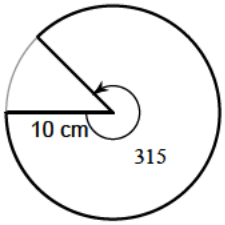
A) $\frac{35\pi}{6}$ km²

B) $\frac{6647\pi}{24}$ km²

C) $\frac{189\pi}{8}$ km²

D) 81π km²

8)



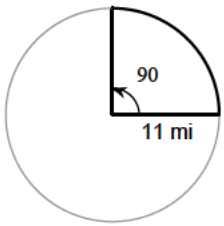
A) $\frac{175\pi}{2}$ cm²

B) 20π cm²

C) $\frac{121\pi}{4}$ cm²

D) 5π cm²

9)



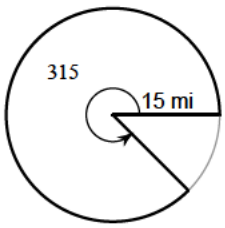
A) 3920400π mi²

B) 1980π mi²

C) 54π mi²

D) $\frac{121\pi}{4}$ mi²

10)



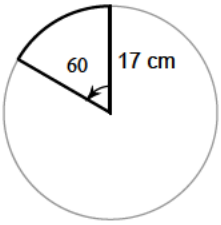
A) $\frac{9\pi}{2}$ mi²

B) $\frac{105\pi}{4}$ mi²

C) $\frac{1575\pi}{8}$ mi²

D) $\frac{77\pi}{12}$ mi²

11)



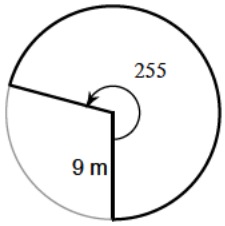
A) $\frac{1575\pi}{8}$ cm²

B) 2040π cm²

C) $\frac{400\pi}{3}$ cm²

D) $\frac{289\pi}{6}$ cm²

12)



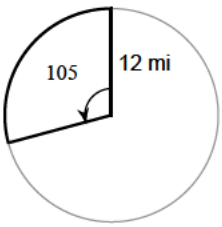
A) $\frac{459\pi}{8}$ m²

B) $\frac{51\pi}{4}$ m²

C) 3π m²

D) 150π m²

13)



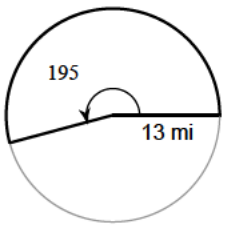
A) 144π mi²

B) $\frac{507\pi}{4}$ mi²

C) 42π mi²

D) 24π mi²

14)



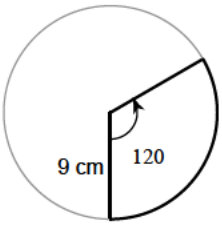
A) 9360π mi²

B) $\frac{169\pi}{12}$ mi²

C) $\frac{375\pi}{2}$ mi²

D) $\frac{2197\pi}{24}$ mi²

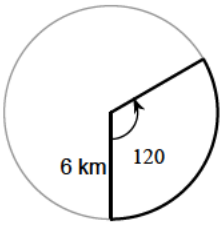
15)



A) $\frac{640\pi}{3}$ cm² B) 6π cm²

C) $\frac{3\pi}{2}$ cm² D) 27π cm²

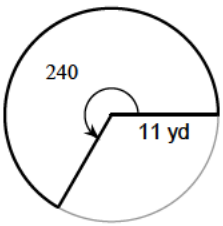
16)



A) 1440π km² B) 4π km²

C) 12π km² D) $\frac{437\pi}{12}$ km²

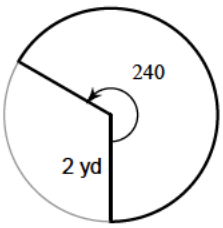
17)



A) $\frac{245\pi}{6}$ yd² B) 121π yd²

C) 33π yd² D) $\frac{242\pi}{3}$ yd²

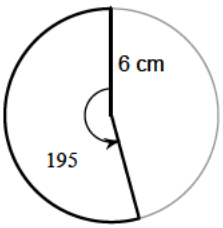
18)



A) $\frac{27\pi}{2}$ yd² B) $\frac{27\pi}{8}$ yd²

C) 189π yd² D) $\frac{8\pi}{3}$ yd²

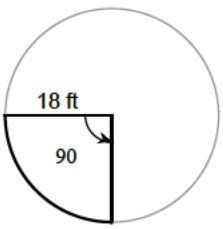
19)



A) 48π cm² B) $\frac{39\pi}{2}$ cm²

C) $\frac{13\pi}{2}$ cm² D) $\frac{28\pi}{3}$ cm²

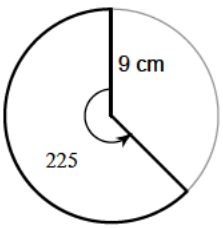
20)



A) 9π ft² B) $\frac{15\pi}{2}$ ft²

C) $\frac{361\pi}{24}$ ft² D) 81π ft²

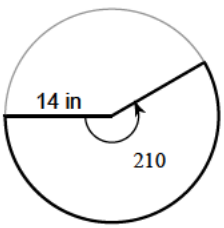
21)



A) $\frac{40\pi}{3}$ cm² B) $\frac{45\pi}{4}$ cm²

C) $\frac{405\pi}{8}$ cm² D) $\frac{3971\pi}{12}$ cm²

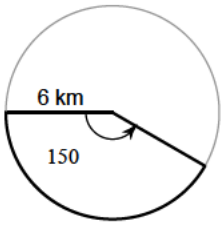
22)



A) $\frac{343\pi}{3}$ in² B) $\frac{49\pi}{3}$ in²

C) $\frac{5\pi}{3}$ in² D) $\frac{25\pi}{6}$ in²

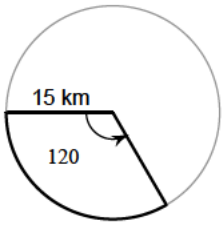
23)



A) 5400π km^2 B) 5π km^2

C) $\frac{833\pi}{6}$ km^2 D) 15π km^2

24)



A) $\frac{10\pi}{3}$ km^2 B) 16π km^2

C) 75π km^2 D) 30π km^2

Answers to Assignment (ID: 9)

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

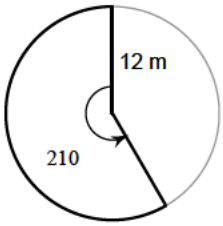
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

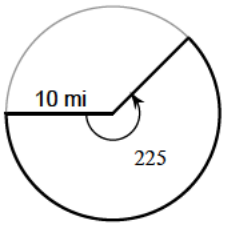
1)



A) 5040π m² B) $\frac{833\pi}{24}$ m²

C) 12π m² D) 84π m²

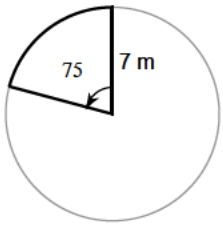
2)



A) $\frac{25\pi}{2}$ mi² B) $\frac{125\pi}{2}$ mi²

C) 4π mi² D) 20π mi²

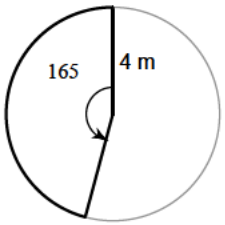
3)



A) $\frac{245\pi}{24}$ m² B) $\frac{\pi}{2}$ m²

C) 49π m² D) $\frac{40\pi}{3}$ m²

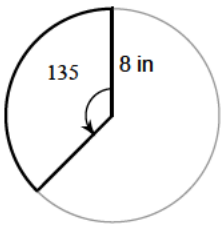
4)



A) $\frac{11\pi}{3}$ m² B) 8π m²

C) $\frac{299\pi}{12}$ m² D) $\frac{22\pi}{3}$ m²

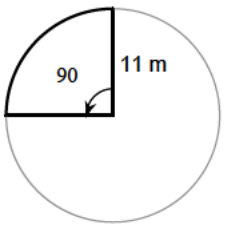
5)



A) $\frac{21\pi}{2}$ in² B) $\frac{15\pi}{8}$ in²

C) $\frac{51\pi}{2}$ in² D) 24π in²

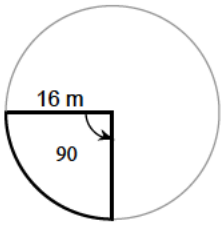
6)



A) $\frac{95\pi}{6}$ m² B) $\frac{351\pi}{8}$ m²

C) $\frac{5\pi}{4}$ m² D) $\frac{121\pi}{4}$ m²

7)



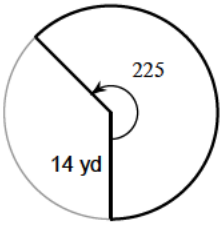
A) $-\frac{163622912\pi}{45}$ m²

B) $-\frac{383709184\pi}{45}$ m²

C) 64π m²

D) $\frac{33\pi}{4}$ m²

8)



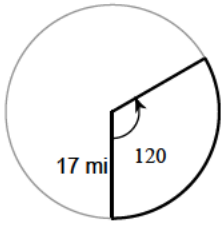
A) π yd²

B) $\frac{7\pi}{4}$ yd²

C) $\frac{245\pi}{2}$ yd²

D) $\frac{15\pi}{4}$ yd²

9)



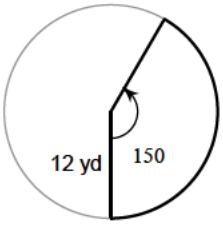
A) $\frac{289\pi}{3}$ mi²

B) 4080π mi²

C) $\frac{119\pi}{12}$ mi²

D) 34680π mi²

10)



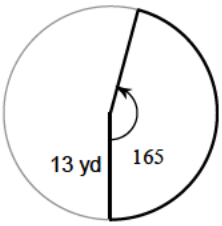
A) $\frac{147\pi}{4}$ yd²

B) $\frac{51\pi}{2}$ yd²

C) 3600π yd²

D) 60π yd²

11)



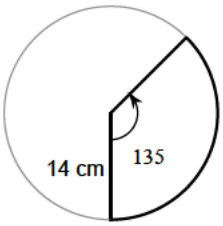
A) $\frac{1859\pi}{24}$ yd²

B) $\frac{143\pi}{12}$ yd²

C) $\frac{33\pi}{2}$ yd²

D) $\frac{544\pi}{3}$ yd²

12)



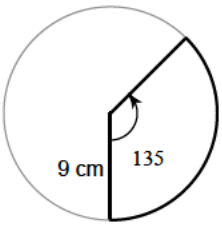
A) $\frac{147\pi}{2}$ cm²

B) 12π cm²

C) $\frac{21\pi}{2}$ cm²

D) $\frac{5\pi}{3}$ cm²

13)



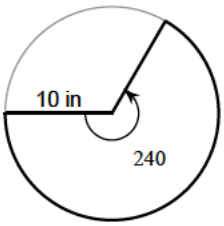
A) $\frac{243\pi}{8}$ cm²

B) $\frac{459\pi}{8}$ cm²

C) $\frac{17\pi}{12}$ cm²

D) $\frac{15\pi}{2}$ cm²

14)



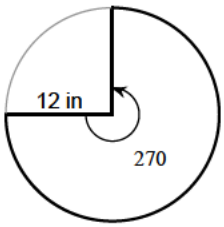
A) $\frac{200\pi}{3}$ in²

B) $\frac{32\pi}{3}$ in²

C) 132π in²

D) $\frac{115\pi}{3}$ in²

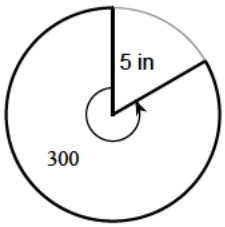
15)



A) $\frac{32\pi}{3}$ in^2 B) $\frac{35\pi}{3}$ in^2

C) 108π in^2 D) 24π in^2

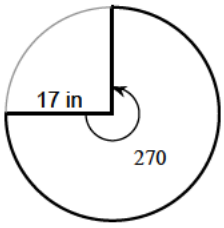
16)



A) $\frac{637\pi}{6}$ in^2 B) $\frac{16\pi}{3}$ in^2

C) $\frac{75\pi}{8}$ in^2 D) $\frac{125\pi}{6}$ in^2

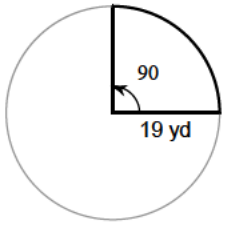
17)



A) $\frac{200\pi}{3}$ in^2 B) 25π in^2

C) $\frac{850\pi}{3}$ in^2 D) $\frac{867\pi}{4}$ in^2

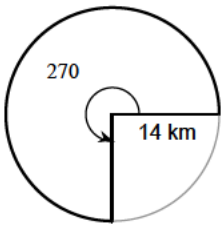
18)



A) $\frac{98\pi}{3}$ yd^2 B) $\frac{361\pi}{4}$ yd^2

C) $\frac{19\pi}{2}$ yd^2 D) $\frac{68\pi}{3}$ yd^2

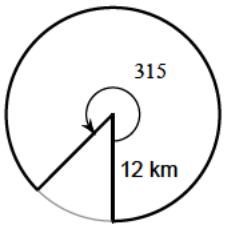
19)



A) $\frac{539\pi}{12}$ km^2 B) 147π km^2

C) $\frac{567\pi}{8}$ km^2 D) 50π km^2

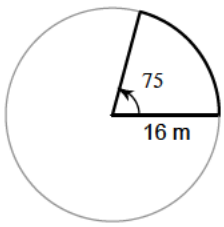
20)



A) 147π km^2 B) 126π km^2

C) $\frac{2197\pi}{24}$ km^2 D) 24π km^2

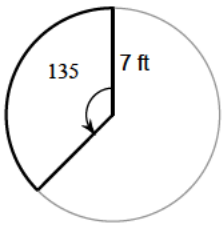
21)



A) $\frac{20\pi}{3}$ m^2 B) $\frac{14\pi}{3}$ m^2

C) $\frac{160\pi}{3}$ m^2 D) $\frac{98\pi}{3}$ m^2

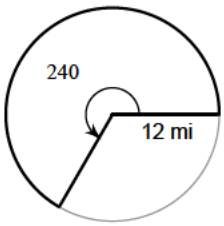
22)



A) $\frac{147\pi}{8}$ ft^2 B) $\frac{209\pi}{12}$ ft^2

C) 14π ft^2 D) 32π ft^2

23)



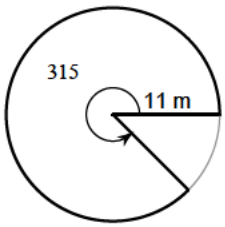
A) 96π mi^2

B) $\frac{21\pi}{8}$ mi^2

C) 20π mi^2

D) 144π mi^2

24)



A) $\frac{77\pi}{4}$ m^2

B) $\frac{32\pi}{3}$ m^2

C) $\frac{847\pi}{8}$ m^2

D) $\frac{391\pi}{12}$ m^2

Answers to Assignment (ID: 10)

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