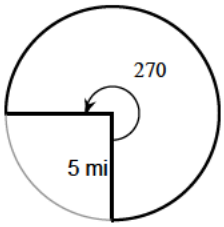
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

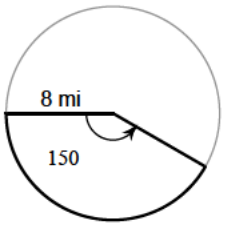
1)



A) $\frac{15\pi}{2}$ mi² B) $\frac{75\pi}{4}$ mi²

C) 2700π mi² D) $\frac{1445\pi}{8}$ mi²

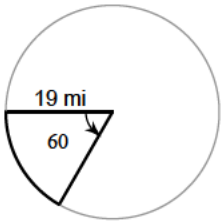
2)



A) 64π mi² B) $\frac{80\pi}{3}$ mi²

C) $\frac{27\pi}{4}$ mi² D) 16π mi²

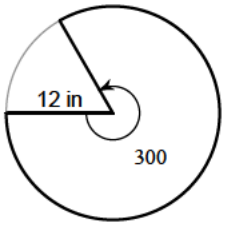
3)



A) 38π mi² B) 2280π mi²

C) $\frac{361\pi}{6}$ mi² D) $\frac{77\pi}{3}$ mi²

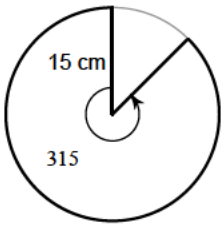
4)



A) 7200π in² B) 120π in²

C) 11π in² D) 20π in²

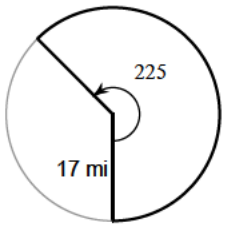
5)



A) $\frac{1575\pi}{8}$ cm² B) 8π cm²

C) $\frac{105\pi}{4}$ cm² D) π cm²

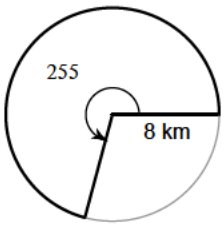
6)



A) $\frac{3\pi}{2}$ mi² B) $\frac{1445\pi}{8}$ mi²

C) $\frac{1183\pi}{8}$ mi² D) $\frac{361\pi}{3}$ mi²

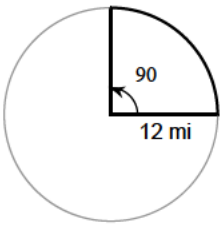
7)



A) $\frac{133\pi}{12}$ km² B) $\frac{85\pi}{4}$ km²

C) $\frac{136\pi}{3}$ km² D) 64π km²

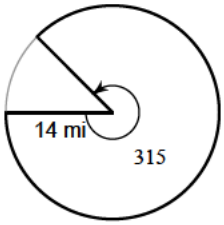
8)



A) 6π mi² B) 36π mi²

C) $\frac{57\pi}{4}$ mi² D) $\frac{45\pi}{8}$ mi²

9)



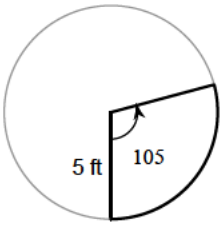
A) $\frac{1575\pi}{8}$ mi²

B) 49π mi²

C) $-\frac{73553824\pi}{45}$ mi²

D) $\frac{343\pi}{2}$ mi²

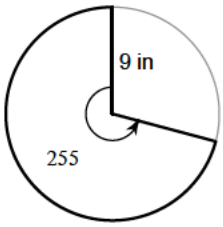
10)



A) $\frac{175\pi}{24}$ ft² B) $\frac{119\pi}{6}$ ft²

C) 2π ft² D) 25π ft²

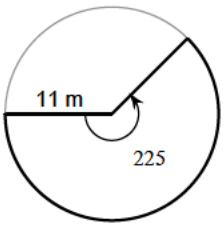
11)



A) $\frac{51\pi}{4}$ in² B) $\frac{459\pi}{8}$ in²

C) 11π in² D) $\frac{95\pi}{3}$ in²

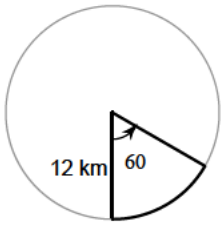
12)



A) $\frac{34\pi}{3}$ m² B) $\frac{250\pi}{3}$ m²

C) $\frac{507\pi}{4}$ m² D) $\frac{605\pi}{8}$ m²

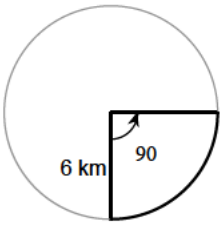
13)



A) 24π km² B) 144π km²

C) 4π km² D) $\frac{27\pi}{2}$ km²

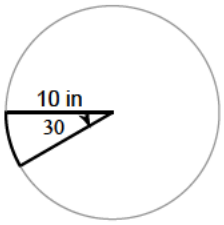
14)



A) 9π km² B) 3π km²

C) 36π km² D) $\frac{57\pi}{4}$ km²

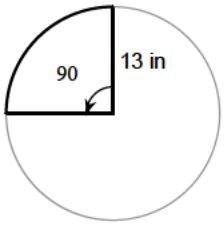
15)



A) 21π in^2 B) 100π in^2

C) 224π in^2 D) $\frac{25\pi}{3}$ in^2

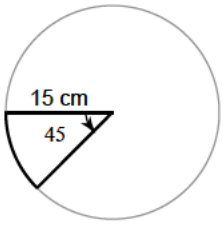
16)



A) $\frac{16\pi}{3}$ in^2 B) 15210π in^2

C) $\frac{169\pi}{4}$ in^2 D) $\frac{65\pi}{12}$ in^2

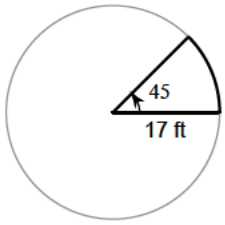
17)



A) $\frac{225\pi}{8}$ cm^2 B) 108π cm^2

C) 10800π cm^2 D) 30π cm^2

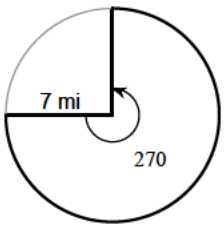
18)



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

C) $\frac{46\pi}{3}$ ft^2 D) 13005π ft^2

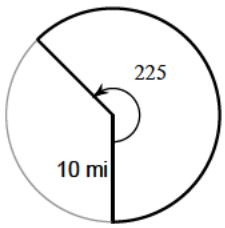
19)



A) $\frac{297\pi}{4}$ mi^2 B) $\frac{704\pi}{3}$ mi^2

C) $\frac{275\pi}{3}$ mi^2 D) $\frac{147\pi}{4}$ mi^2

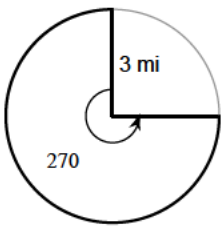
20)



A) 33π mi^2 B) $\frac{125\pi}{2}$ mi^2

C) $\frac{2023\pi}{8}$ mi^2 D) $\frac{25\pi}{2}$ mi^2

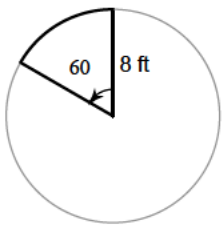
21)



A) $\frac{9\pi}{2}$ mi^2 B) 16π mi^2

C) $\frac{27\pi}{4}$ mi^2 D) $\frac{21\pi}{2}$ mi^2

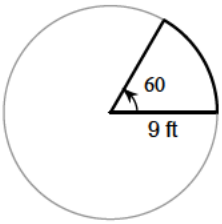
22)



A) $\frac{16\pi}{3}$ ft^2 B) $\frac{\pi}{2}$ ft^2

C) $\frac{65\pi}{12}$ ft^2 D) $\frac{32\pi}{3}$ ft^2

23)



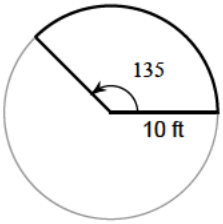
A) 3π ft²

B) $\frac{605\pi}{6}$ ft²

C) $\frac{16\pi}{3}$ ft²

D) $\frac{27\pi}{2}$ ft²

24)



A) 200π ft²

B) $\frac{975\pi}{8}$ ft²

C) $\frac{75\pi}{2}$ ft²

D) 36000π ft²

Answers to Assignment (ID: 1)

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

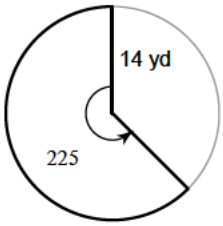
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

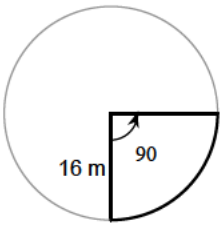
1)



A) 11π yd² B) $\frac{35\pi}{2}$ yd²

C) $\frac{245\pi}{2}$ yd² D) $\frac{44\pi}{3}$ yd²

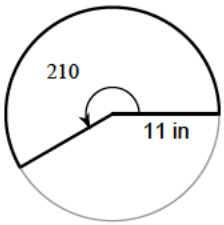
2)



A) 8π m² B) $\frac{121\pi}{6}$ m²

C) $\frac{7\pi}{6}$ m² D) 64π m²

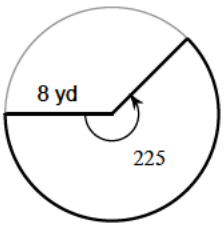
3)



A) $\frac{847\pi}{12}$ in² B) $\frac{77\pi}{6}$ in²

C) $\frac{27\pi}{4}$ in² D) 25410π in²

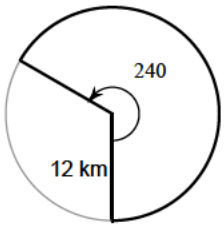
4)



A) 40π yd² B) $\frac{350\pi}{3}$ yd²

C) 10π yd² D) $\frac{245\pi}{12}$ yd²

5)



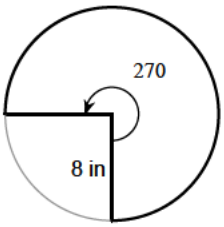
A) 2073600π km²

B) $\frac{637\pi}{24}$ km²

C) 96π km²

D) 5760π km²

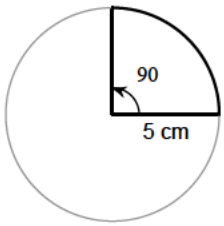
6)



A) 4320π in² B) 48π in²

C) 17280π in² D) 25π in²

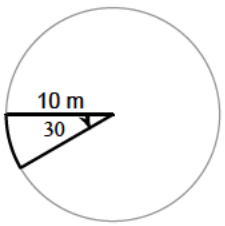
7)



A) 30π cm² B) $\frac{25\pi}{4}$ cm²

C) $\frac{16\pi}{3}$ cm² D) $\frac{169\pi}{24}$ cm²

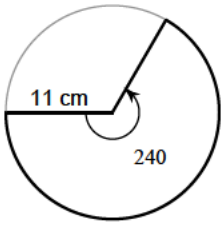
8)



A) $\frac{25\pi}{3}$ m² B) $\frac{28\pi}{3}$ m²

C) $\frac{85\pi}{6}$ m² D) $\frac{5\pi}{3}$ m²

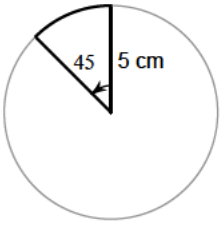
9)



A) $\frac{242\pi}{3}$ cm² B) $\frac{49\pi}{4}$ cm²

C) 96π cm² D) $\frac{17\pi}{6}$ cm²

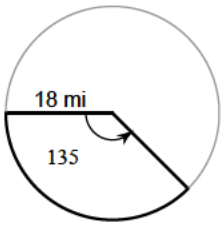
10)



A) $\frac{361\pi}{8}$ cm² B) $\frac{25\pi}{8}$ cm²

C) $\frac{5\pi}{3}$ cm² D) 450π cm²

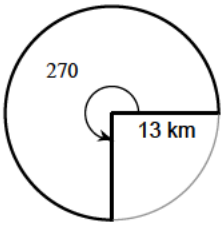
11)



A) 43740π mi² B) $\frac{243\pi}{2}$ mi²

C) $\frac{27\pi}{2}$ mi² D) $\frac{361\pi}{2}$ mi²

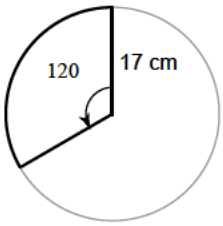
12)



A) $\frac{3971\pi}{24}$ km² B) $\frac{6859\pi}{24}$ km²

C) 49π km² D) $\frac{507\pi}{4}$ km²

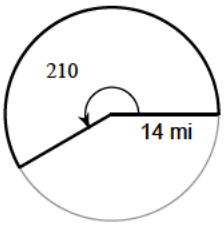
13)



A) $\frac{34\pi}{3}$ cm² B) $\frac{289\pi}{3}$ cm²

C) $\frac{25\pi}{8}$ cm² D) 34π cm²

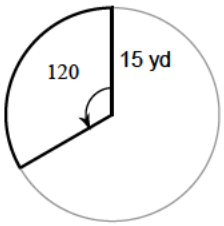
14)



A) $\frac{343\pi}{3}$ mi² B) $\frac{475\pi}{6}$ mi²

C) $\frac{49\pi}{3}$ mi² D) $\frac{55\pi}{4}$ mi²

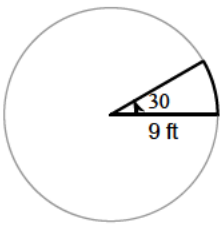
15)



A) $\frac{35\pi}{6}$ yd² B) 75π yd²

C) $\frac{7\pi}{2}$ yd² D) 30π yd²

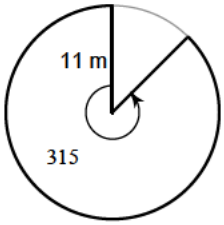
16)



A) $\frac{3\pi}{2}$ ft² B) $\frac{81\pi}{2}$ ft²

C) $\frac{27\pi}{4}$ ft² D) $\frac{56\pi}{3}$ ft²

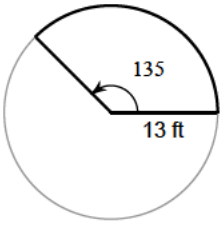
17)



A) $\frac{1859\pi}{24}$ m² B) $\frac{847\pi}{8}$ m²

C) $\frac{100\pi}{3}$ m² D) $\frac{621\pi}{2}$ m²

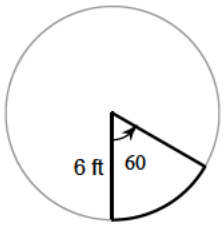
18)



A) $\frac{507\pi}{8}$ ft² B) $\frac{119\pi}{12}$ ft²

C) 22815π ft² D) $\frac{85\pi}{12}$ ft²

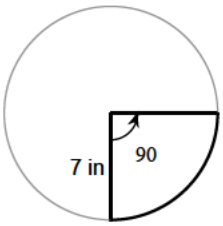
19)



A) 6π ft² B) $\frac{15\pi}{4}$ ft²

C) 2π ft² D) $\frac{4\pi}{3}$ ft²

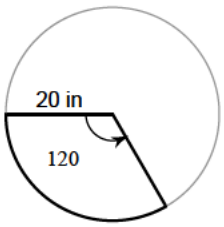
20)



A) 5040π in² B) 17640π in²

C) 10π in² D) $\frac{49\pi}{4}$ in²

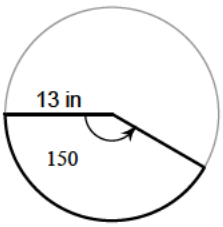
21)



A) $\frac{69\pi}{2}$ in² B) $\frac{40\pi}{3}$ in²

C) 40π in² D) $\frac{400\pi}{3}$ in²

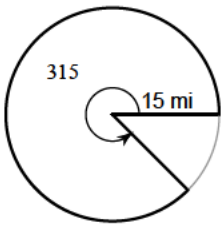
22)



A) 10π in² B) 26π in²

C) 169π in² D) $\frac{845\pi}{12}$ in²

23)



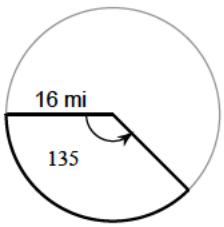
A) $\frac{49\pi}{6}$ mi²

B) $\frac{91\pi}{12}$ mi²

C) $\frac{1575\pi}{8}$ mi²

D) 11π mi²

24)



A) 75π mi²

B) 15π mi²

C) 96π mi²

D) 4320π mi²

Answers to Assignment (ID: 2)

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

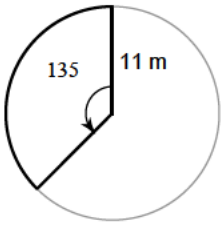
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

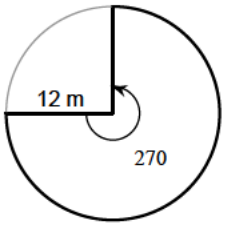
1)



A) $\frac{847\pi}{8}$ m² B) $\frac{33\pi}{4}$ m²

C) $\frac{363\pi}{8}$ m² D) 2970π m²

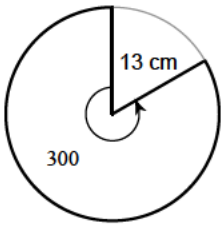
2)



A) 250π m² B) $\frac{65\pi}{3}$ m²

C) 18π m² D) 108π m²

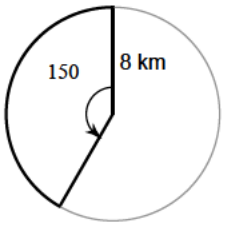
3)



A) 18π cm² B) 20π cm²

C) $\frac{845\pi}{6}$ cm² D) 48π cm²

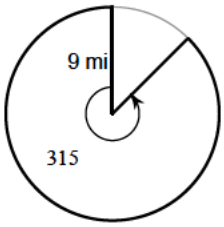
4)



A) $\frac{20\pi}{3}$ km² B) $\frac{121\pi}{2}$ km²

C) $\frac{80\pi}{3}$ km² D) $\frac{5491\pi}{24}$ km²

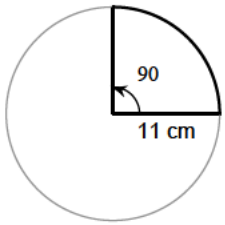
5)



A) $\frac{567\pi}{8}$ mi² B) $\frac{63\pi}{4}$ mi²

C) $\frac{375\pi}{4}$ mi² D) 81π mi²

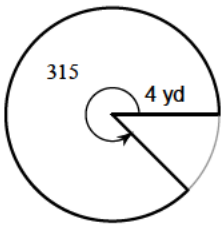
6)



A) $\frac{75\pi}{8}$ cm² B) $\frac{17\pi}{2}$ cm²

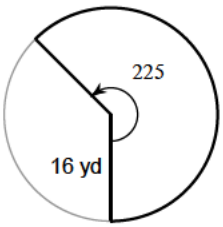
C) $\frac{361\pi}{24}$ cm² D) $\frac{121\pi}{4}$ cm²

7)



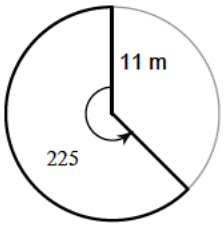
A) 14π yd²
B) 7π yd²
C) 2520π yd²
D) $\frac{8\pi}{3}$ yd²

8)



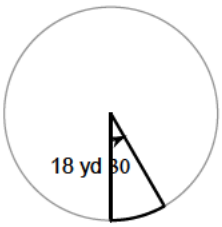
A) 15π yd²
B) 54π yd²
C) 160π yd²
D) 7200π yd²

9)



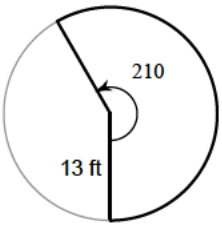
A) $\frac{605\pi}{8}$ m²
B) 3π m²
C) $\frac{245\pi}{2}$ m²
D) $\frac{9\pi}{4}$ m²

10)



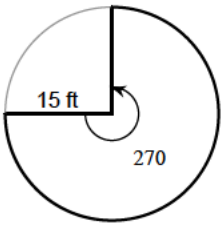
A) 27π yd²
B) $-\frac{47963648\pi}{15}$ yd²
C) 9720π yd²
D) 388800π yd²

11)



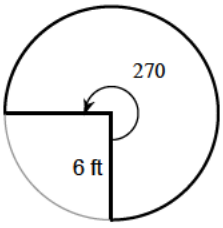
A) $\frac{91\pi}{6}$ ft²
B) $\frac{1183\pi}{12}$ ft²
C) $\frac{38067088\pi}{45}$ ft²
D) 5460π ft²

12)



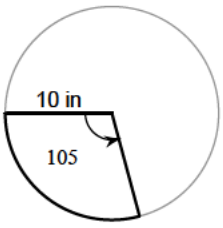
A) $\frac{49\pi}{6}$ ft²
B) $\frac{14\pi}{3}$ ft²
C) $\frac{675\pi}{4}$ ft²
D) $\frac{45\pi}{2}$ ft²

13)



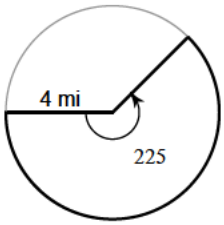
A) 32π ft²
B) 9720π ft²
C) 27π ft²
D) 9π ft²

14)



A) $\frac{100\pi}{3}$ in²
B) $\frac{175\pi}{6}$ in²
C) $\frac{25\pi}{3}$ in²
D) $\frac{544\pi}{3}$ in²

15)



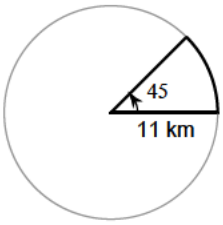
A) $\frac{361\pi}{8}$ mi²

B) $\frac{800\pi}{3}$ mi²

C) 16π mi²

D) 10π mi²

16)



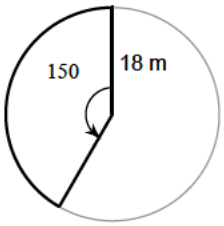
A) 121π km²

B) $\frac{11\pi}{4}$ km²

C) $\frac{121\pi}{8}$ km²

D) 2π km²

17)



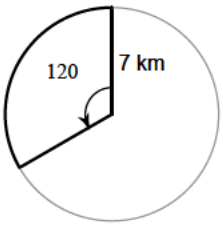
A) π m²

B) 36π m²

C) 135π m²

D) $\frac{10\pi}{3}$ m²

18)



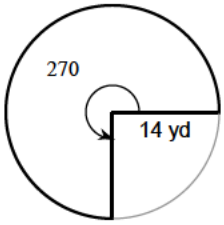
A) $\frac{7\pi}{2}$ km²

B) $\frac{14\pi}{3}$ km²

C) $\frac{15\pi}{8}$ km²

D) $\frac{49\pi}{3}$ km²

19)



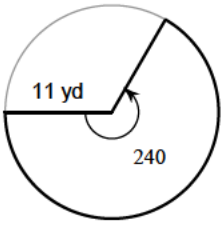
A) $\frac{845\pi}{8}$ yd²

B) $\frac{115\pi}{6}$ yd²

C) 21π yd²

D) 147π yd²

20)



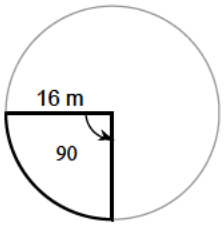
A) 5280π yd²

B) $-\frac{66422912\pi}{45}$ yd²

C) 22π yd²

D) $\frac{242\pi}{3}$ yd²

21)



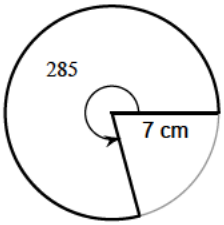
A) 7π m²

B) 32π m²

C) 64π m²

D) $\frac{17\pi}{6}$ m²

22)



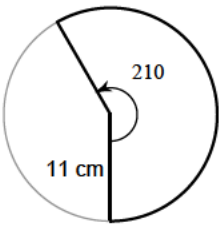
A) $\frac{100\pi}{3}$ cm²

B) $\frac{931\pi}{24}$ cm²

C) $\frac{2\pi}{3}$ cm²

D) 13965π cm²

23)



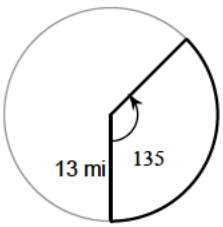
A) $\frac{56\pi}{3}$ cm²

B) $\frac{847\pi}{12}$ cm²

C) 48π cm²

D) $\frac{77\pi}{6}$ cm²

24)



A) $\frac{507\pi}{8}$ mi²

B) $\frac{550\pi}{3}$ mi²

C) $\frac{128\pi}{3}$ mi²

D) 169π mi²

Answers to Assignment (ID: 3)

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

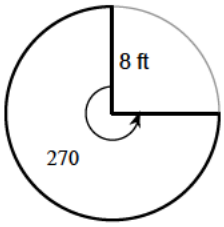
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

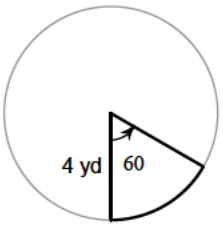
1)



A) 12π ft^2 B) 64π ft^2

C) $\frac{25\pi}{24}$ ft^2 D) 48π ft^2

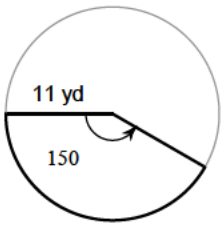
2)



A) $\frac{343\pi}{24}$ yd^2 B) $\frac{4\pi}{3}$ yd^2

C) $\frac{8\pi}{3}$ yd^2 D) $\frac{23\pi}{6}$ yd^2

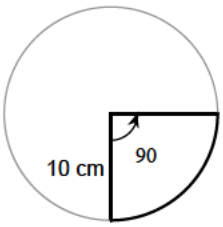
3)



A) $\frac{605\pi}{12}$ yd^2 B) $\frac{187\pi}{6}$ yd^2

C) 121π yd^2 D) 43560π yd^2

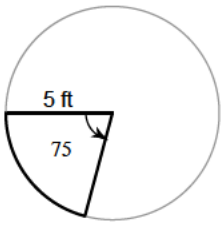
4)



A) 25π cm^2 B) $\frac{10\pi}{3}$ cm^2

C) 5π cm^2 D) $\frac{19\pi}{3}$ cm^2

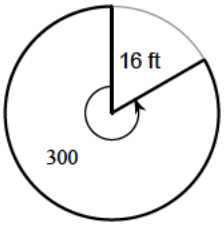
5)



A) 4π ft^2 B) $\frac{125\pi}{24}$ ft^2

C) 1875π ft^2 D) $\frac{11\pi}{2}$ ft^2

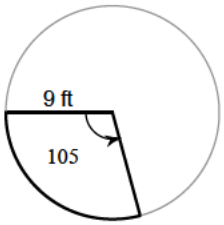
6)



A) $\frac{13\pi}{2}$ ft^2 B) $\frac{27\pi}{2}$ ft^2

C) 76800π ft^2 D) $\frac{640\pi}{3}$ ft^2

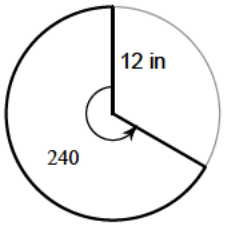
7)



A) $\frac{51\pi}{4}$ ft² B) $\frac{21\pi}{4}$ ft²

C) $\frac{189\pi}{8}$ ft² D) $\frac{13\pi}{4}$ ft²

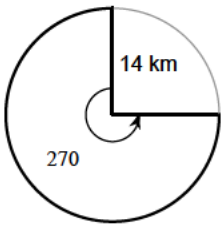
8)



A) 34560π in² B) 96π in²

C) $\frac{1331\pi}{24}$ in² D) $\frac{160\pi}{3}$ in²

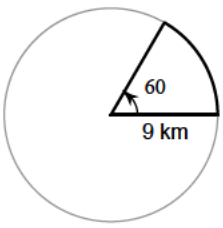
9)



A) $\frac{13\pi}{4}$ km² B) 52920π km²

C) 147π km² D) $\frac{33\pi}{4}$ km²

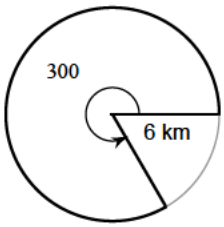
10)



A) $\frac{51\pi}{2}$ km² B) $\frac{27\pi}{2}$ km²

C) $\frac{578\pi}{3}$ km² D) 4860π km²

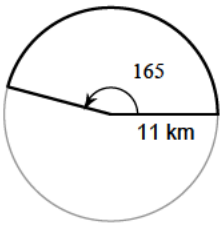
11)



A) $\frac{57\pi}{8}$ km² B) 30π km²

C) $\frac{10\pi}{3}$ km² D) $\frac{8\pi}{3}$ km²

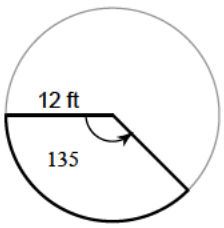
12)



A) $\frac{121\pi}{12}$ km² B) $\frac{1331\pi}{24}$ km²

C) $\frac{448\pi}{3}$ km² D) $\frac{200\pi}{3}$ km²

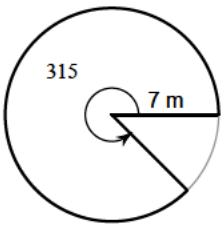
13)



A) 54π ft² B) 56π ft²

C) $\frac{931\pi}{24}$ ft² D) 8π ft²

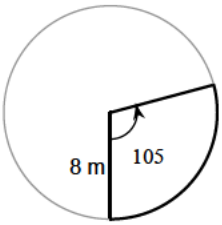
14)



A) $\frac{49\pi}{4}$ m² B) 16π m²

C) $\frac{51\pi}{8}$ m² D) $\frac{343\pi}{8}$ m²

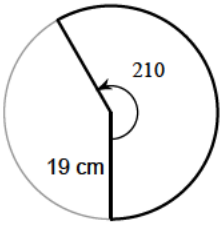
15)



A) $\frac{5\pi}{3}$ m² B) 64π m²

C) $\frac{14\pi}{3}$ m² D) $\frac{56\pi}{3}$ m²

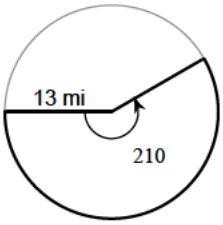
16)



A) 7980π cm² B) $\frac{2527\pi}{12}$ cm²

C) $\frac{133\pi}{6}$ cm² D) 7π cm²

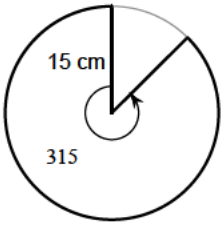
17)



A) $\frac{1183\pi}{12}$ mi² B) 14π mi²

C) 27π mi² D) 26π mi²

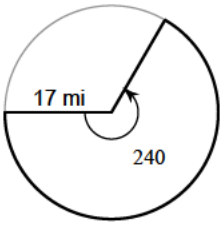
18)



A) $\frac{700\pi}{3}$ cm² B) $\frac{1575\pi}{8}$ cm²

C) $\frac{459\pi}{8}$ cm² D) 225π cm²

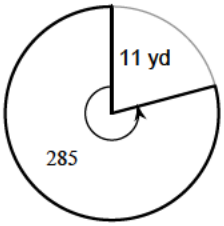
19)



A) $\frac{68\pi}{3}$ mi² B) $\frac{\pi}{6}$ mi²

C) $\frac{578\pi}{3}$ mi² D) 289π mi²

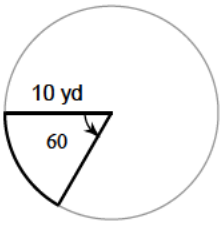
20)



A) $\frac{2299\pi}{24}$ yd² B) $\frac{80\pi}{3}$ yd²

C) 34485π yd² D) $\frac{539\pi}{6}$ yd²

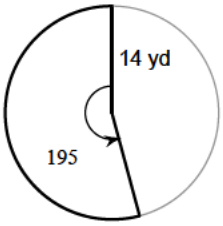
21)



A) $\frac{125\pi}{6}$ yd² B) $\frac{605\pi}{24}$ yd²

C) 6000π yd² D) $\frac{50\pi}{3}$ yd²

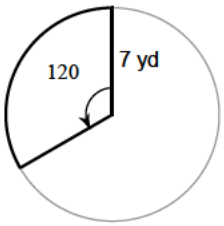
22)



A) $\frac{39\pi}{2}$ yd² B) 160π yd²

C) $\frac{2\pi}{3}$ yd² D) $\frac{637\pi}{6}$ yd²

23)



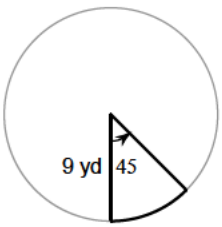
A) $\frac{49\pi}{3}$ yd²

B) $\frac{361\pi}{12}$ yd²

C) $\frac{343\pi}{8}$ yd²

D) 27π yd²

24)



A) $\frac{1805\pi}{8}$ yd²

B) $\frac{81\pi}{8}$ yd²

C) $\frac{9\pi}{4}$ yd²

D) $\frac{17\pi}{3}$ yd²

Answers to Assignment (ID: 4)

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

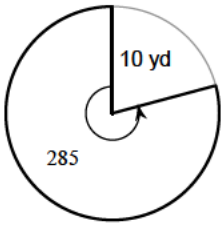
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

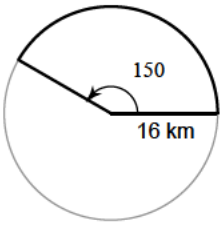
1)



A) 7π yd^2 B) $\frac{38\pi}{3}$ yd^2

C) $\frac{475\pi}{6}$ yd^2 D) $\frac{128\pi}{3}$ yd^2

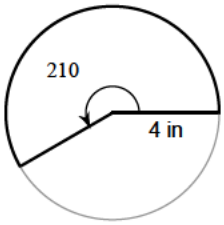
2)



A) $\frac{507\pi}{4}$ km^2 B) $\frac{320\pi}{3}$ km^2

C) π km^2 D) $\frac{9\pi}{2}$ km^2

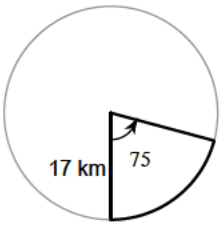
3)



A) $\frac{14\pi}{3}$ in^2 B) $\frac{85\pi}{4}$ in^2

C) 3360π in^2 D) $\frac{28\pi}{3}$ in^2

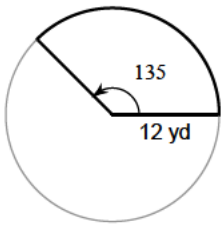
4)



A) $\frac{125\pi}{6}$ km^2 B) $\frac{1445\pi}{24}$ km^2

C) $\frac{85\pi}{12}$ km^2 D) $\frac{50\pi}{3}$ km^2

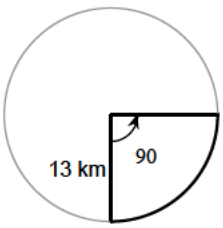
5)



A) $\frac{5\pi}{3}$ yd^2 B) 144π yd^2

C) 8π yd^2 D) 54π yd^2

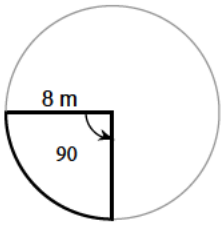
6)



A) 15210π km^2 B) $\frac{13\pi}{2}$ km^2

C) $\frac{169\pi}{4}$ km^2 D) $\frac{15\pi}{4}$ km^2

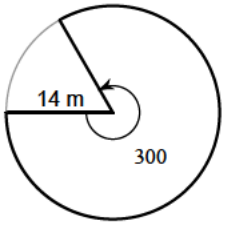
7)



A) $\frac{9\pi}{2}$ m² B) 16π m²

C) $\frac{640\pi}{3}$ m² D) 4π m²

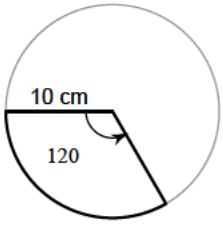
8)



A) $\frac{25\pi}{24}$ m² B) $\frac{75\pi}{2}$ m²

C) $\frac{490\pi}{3}$ m² D) $\frac{85\pi}{12}$ m²

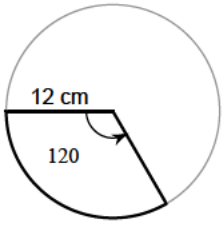
9)



A) $\frac{825\pi}{4}$ cm² B) $\frac{85\pi}{12}$ cm²

C) $\frac{25\pi}{2}$ cm² D) $\frac{100\pi}{3}$ cm²

10)



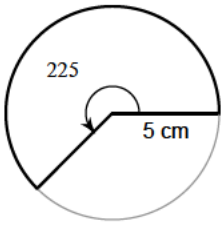
A) 48π cm²

B) 8π cm²

C) 1036800π cm²

D) 2880π cm²

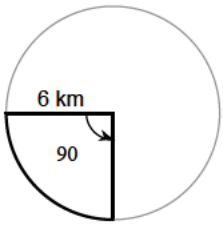
11)



A) $\frac{125\pi}{8}$ cm² B) $\frac{14\pi}{3}$ cm²

C) $\frac{25\pi}{4}$ cm² D) $\frac{70\pi}{3}$ cm²

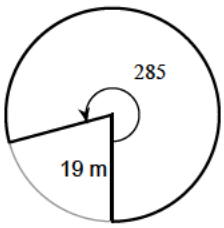
12)



A) $\frac{13\pi}{6}$ km² B) $\frac{51\pi}{2}$ km²

C) $\frac{27\pi}{8}$ km² D) 9π km²

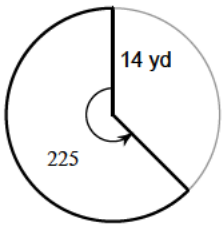
13)



A) $\frac{6859\pi}{24}$ m² B) $\frac{4\pi}{3}$ m²

C) $\frac{104\pi}{3}$ m² D) $\frac{361\pi}{12}$ m²

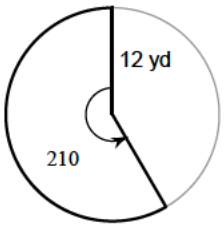
14)



A) $\frac{35\pi}{2}$ yd² B) 28π yd²

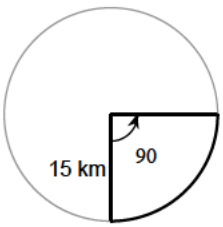
C) $\frac{245\pi}{2}$ yd² D) $\frac{7\pi}{6}$ yd²

15)



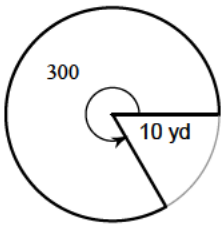
A) 144π yd^2 B) 21π yd^2
C) 84π yd^2 D) 24π yd^2

16)



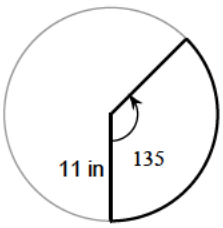
A) $\frac{323\pi}{12}$ km^2 B) $\frac{225\pi}{4}$ km^2
C) $\frac{3\pi}{2}$ km^2 D) $\frac{19\pi}{6}$ km^2

17)



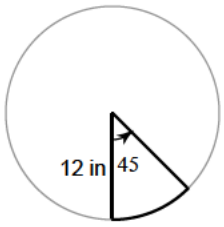
A) $\frac{299\pi}{12}$ yd^2 B) $\frac{250\pi}{3}$ yd^2
C) $\frac{85\pi}{6}$ yd^2 D) $\frac{11\pi}{2}$ yd^2

18)



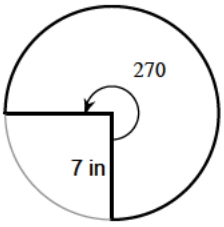
A) $\frac{22\pi}{3}$ in^2 B) $\frac{33\pi}{4}$ in^2
C) $\frac{363\pi}{8}$ in^2 D) 16335π in^2

19)



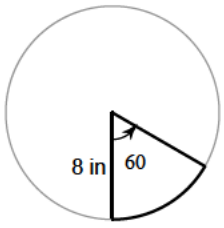
A) 5π in^2 B) 3π in^2
C) $\frac{845\pi}{8}$ in^2 D) 18π in^2

20)



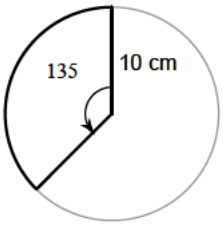
A) 49π in^2 B) $\frac{250\pi}{3}$ in^2
C) $\frac{33\pi}{4}$ in^2 D) $\frac{147\pi}{4}$ in^2

21)



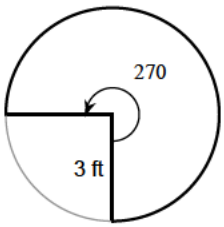
A) 250π in^2 B) $\frac{8\pi}{3}$ in^2
C) $\frac{32\pi}{3}$ in^2 D) 64π in^2

22)



A) $\frac{75\pi}{2}$ cm^2 B) $\frac{15\pi}{2}$ cm^2
C) 13500π cm^2 D) 2700π cm^2

23)



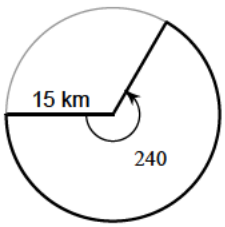
A) $\frac{4693\pi}{24}$ ft²

B) $\frac{55\pi}{6}$ ft²

C) $\frac{35\pi}{2}$ ft²

D) $\frac{27\pi}{4}$ ft²

24)



A) π km²

B) 54000π km²

C) 150π km²

D) 7200π km²

Answers to Assignment (ID: 5)

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

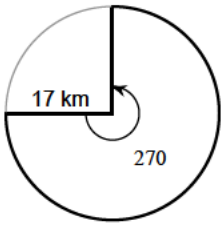
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

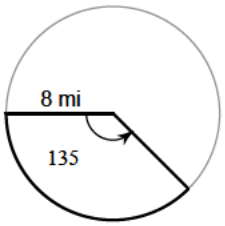
1)



A) 34π km^2 B) 289π km^2

C) $\frac{867\pi}{4}$ km^2 D) $\frac{176\pi}{3}$ km^2

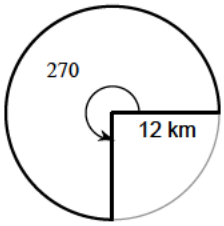
2)



A) $\frac{44\pi}{3}$ mi^2 B) 24π mi^2

C) $\frac{225\pi}{8}$ mi^2 D) 6π mi^2

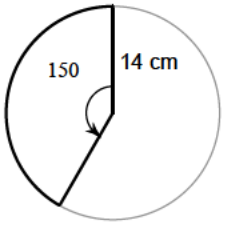
3)



A) $\frac{49\pi}{8}$ km^2 B) 108π km^2

C) $\frac{63\pi}{4}$ km^2 D) 144π km^2

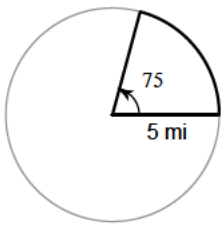
4)



A) $\frac{245\pi}{3}$ cm^2 B) $\frac{575\pi}{6}$ cm^2

C) $\frac{35\pi}{6}$ cm^2 D) $\frac{605\pi}{24}$ cm^2

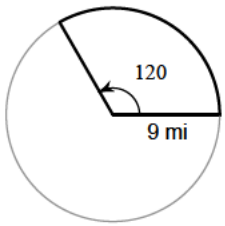
5)



A) $\frac{65\pi}{6}$ mi^2 B) $\frac{25\pi}{12}$ mi^2

C) 10π mi^2 D) $\frac{125\pi}{24}$ mi^2

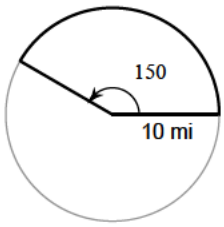
6)



A) $\frac{375\pi}{8}$ mi^2 B) 10π mi^2

C) $\frac{3\pi}{4}$ mi^2 D) 27π mi^2

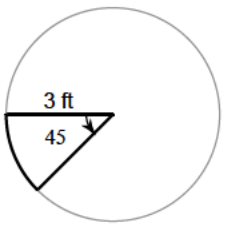
7)



A) $\frac{125\pi}{3}$ mi² B) $\frac{35\pi}{6}$ mi²

C) $\frac{25\pi}{3}$ mi² D) 3000π mi²

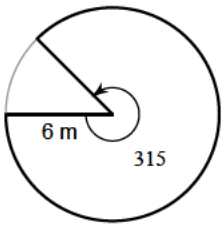
8)



A) $\frac{50\pi}{3}$ ft² B) 270π ft²

C) $\frac{320\pi}{3}$ ft² D) $\frac{9\pi}{8}$ ft²

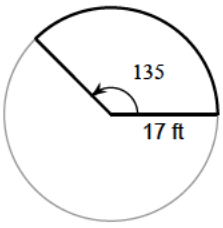
9)



A) $\frac{21\pi}{2}$ m² B) 36π m²

C) $\frac{25\pi}{2}$ m² D) $\frac{63\pi}{2}$ m²

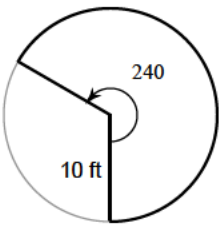
10)



A) $\frac{375\pi}{8}$ ft² B) $\frac{867\pi}{8}$ ft²

C) $\frac{51\pi}{4}$ ft² D) 75π ft²

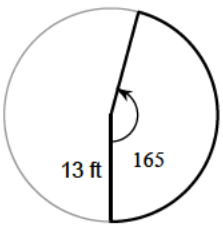
11)



A) $\frac{200\pi}{3}$ ft² B) $\frac{40\pi}{3}$ ft²

C) $\frac{5\pi}{2}$ ft² D) 33π ft²

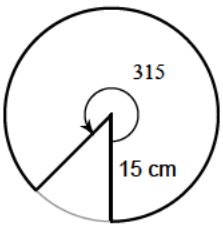
12)



A) $\frac{1859\pi}{24}$ ft² B) $\frac{143\pi}{12}$ ft²

C) $\frac{5\pi}{4}$ ft² D) $\frac{119\pi}{6}$ ft²

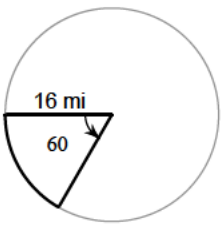
13)



A) $\frac{125\pi}{3}$ cm² B) $\frac{1575\pi}{8}$ cm²

C) 90π cm² D) 30π cm²

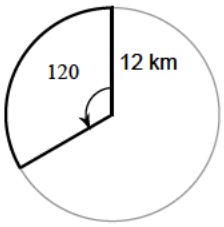
14)



A) $\frac{128\pi}{3}$ mi² B) $\frac{64\pi}{3}$ mi²

C) 15360π mi² D) $\frac{221\pi}{12}$ mi²

15)



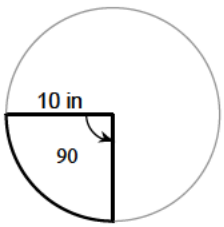
A) $\frac{17\pi}{6}$ km²

B) 48π km²

C) $\frac{2527\pi}{8}$ km²

D) 17280π km²

16)



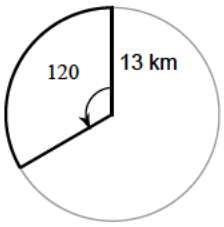
A) $\frac{247\pi}{12}$ in²

B) $\frac{121\pi}{6}$ in²

C) 25π in²

D) 5π in²

17)



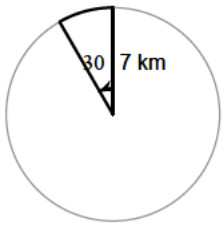
A) 7π km²

B) 21π km²

C) $\frac{169\pi}{3}$ km²

D) $\frac{2\pi}{3}$ km²

18)



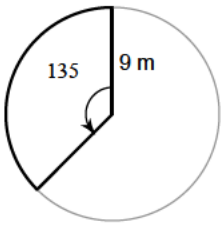
A) $\frac{49\pi}{12}$ km²

B) $\frac{11\pi}{4}$ km²

C) $\frac{7\pi}{6}$ km²

D) $\frac{49\pi}{3}$ km²

19)



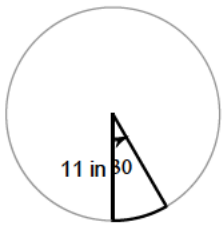
A) $\frac{243\pi}{8}$ m²

B) $\frac{35\pi}{4}$ m²

C) π m²

D) $\frac{160\pi}{3}$ m²

20)



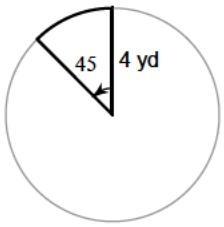
A) $\frac{121\pi}{12}$ in²

B) 121π in²

C) $\frac{39\pi}{4}$ in²

D) 27π in²

21)



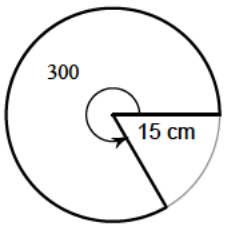
A) 259200π yd²

B) 360π yd²

C) 2π yd²

D) π yd²

22)



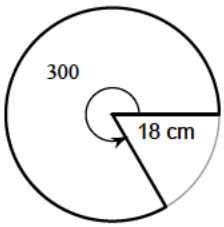
A) 25π cm²

B) $\frac{375\pi}{2}$ cm²

C) 24π cm²

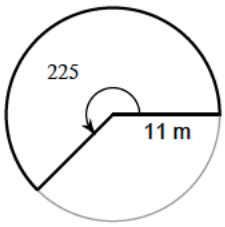
D) $\frac{95\pi}{4}$ cm²

23)



A) 30π cm^2 B) 19π cm^2
C) 36π cm^2 D) 270π cm^2

24)



A) $\frac{55\pi}{4}$ m^2 B) $\frac{245\pi}{8}$ m^2
C) $\frac{3\pi}{2}$ m^2 D) $\frac{605\pi}{8}$ m^2

Answers to Assignment (ID: 6)

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

Geometry

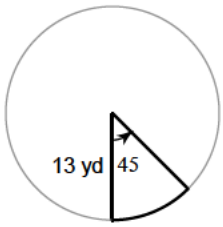
Name_____

Assignment

Date_____ Period____

Find the area of each sector.

1)



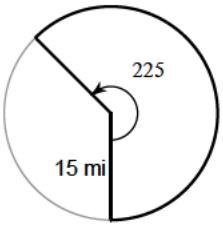
A) π yd^2

B) $\frac{169\pi}{8}$ yd^2

C) 26π yd^2

D) 7605π yd^2

2)



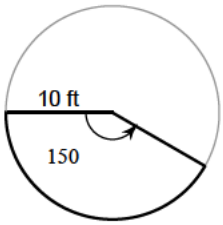
A) $\frac{52\pi}{3}$ mi^2

B) $\frac{27\pi}{4}$ mi^2

C) $\frac{75\pi}{4}$ mi^2

D) $\frac{1125\pi}{8}$ mi^2

3)



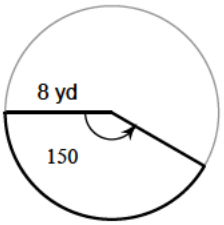
A) 2π ft^2

B) $\frac{25\pi}{3}$ ft^2

C) $\frac{125\pi}{3}$ ft^2

D) $\frac{184\pi}{3}$ ft^2

4)



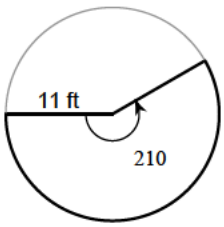
A) $\frac{80\pi}{3}$ yd^2

B) $\frac{187\pi}{6}$ yd^2

C) $\frac{17\pi}{2}$ yd^2

D) $\frac{121\pi}{24}$ yd^2

5)



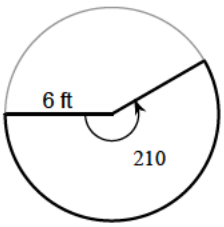
A) $\frac{39\pi}{4}$ ft^2

B) $\frac{75\pi}{2}$ ft^2

C) $\frac{375\pi}{8}$ ft^2

D) $\frac{847\pi}{12}$ ft^2

6)



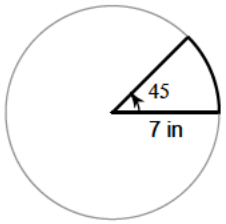
A) 3π ft^2

B) 21π ft^2

C) $\frac{28\pi}{3}$ ft^2

D) 96π ft^2

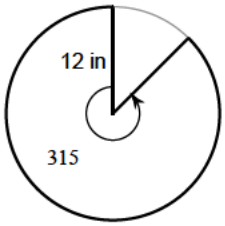
7)



A) $\frac{7\pi}{4}$ in^2 B) $\frac{76\pi}{3}$ in^2

C) $\frac{136\pi}{3}$ in^2 D) $\frac{49\pi}{8}$ in^2

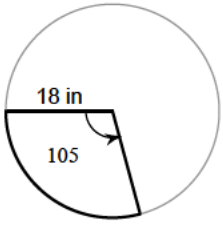
8)



A) 126π in^2 B) 144π in^2

C) $\frac{35\pi}{2}$ in^2 D) $\frac{416\pi}{3}$ in^2

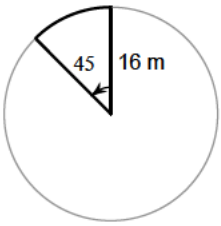
9)



A) $\frac{21\pi}{2}$ in^2 B) 324π in^2

C) 34020π in^2 D) $\frac{189\pi}{2}$ in^2

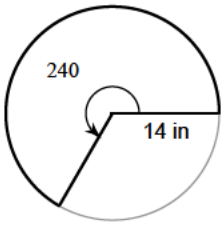
10)



A) 12π m^2 B) 32π m^2

C) 4π m^2 D) 100π m^2

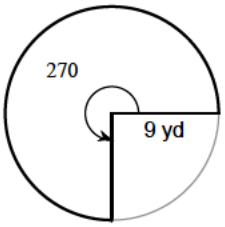
11)



A) $\frac{176\pi}{3}$ in^2 B) $\frac{44\pi}{3}$ in^2

C) $\frac{392\pi}{3}$ in^2 D) $\frac{56\pi}{3}$ in^2

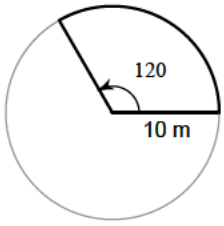
12)



A) $\frac{243\pi}{4}$ yd^2 B) 27π yd^2

C) $\frac{133\pi}{6}$ yd^2 D) 12π yd^2

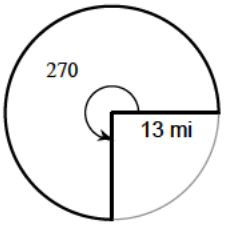
13)



A) $\frac{3\pi}{2}$ m^2 B) $\frac{100\pi}{3}$ m^2

C) 2400π m^2 D) 56π m^2

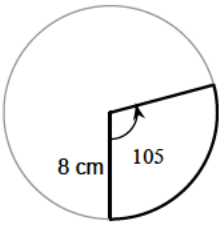
14)



A) $\frac{39\pi}{2}$ mi^2 B) $\frac{17\pi}{4}$ mi^2

C) 7020π mi^2 D) $\frac{507\pi}{4}$ mi^2

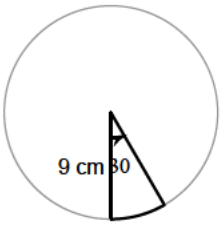
15)



A) $\frac{56\pi}{3}$ cm² B) $\frac{23\pi}{4}$ cm²

C) $\frac{800\pi}{3}$ cm² D) $\frac{2\pi}{3}$ cm²

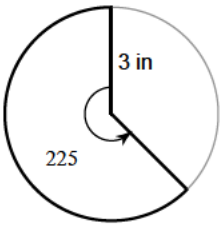
16)



A) $\frac{27\pi}{4}$ cm² B) 540π cm²

C) 874800π cm² D) $\frac{44\pi}{3}$ cm²

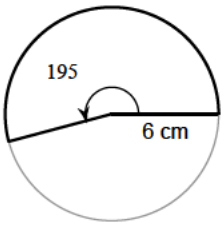
17)



A) $\frac{95\pi}{4}$ in² B) $\frac{8\pi}{3}$ in²

C) $\frac{45\pi}{8}$ in² D) 6π in²

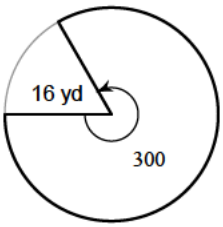
18)



A) $\frac{13\pi}{2}$ cm² B) 6π cm²

C) $\frac{39\pi}{2}$ cm² D) $\frac{7\pi}{2}$ cm²

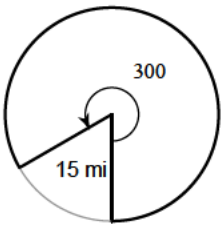
19)



A) $\frac{57\pi}{2}$ yd² B) $\frac{640\pi}{3}$ yd²

C) $\frac{33\pi}{2}$ yd² D) 120π yd²

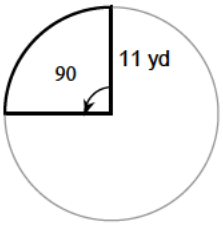
20)



A) $\frac{375\pi}{2}$ mi² B) $\frac{49\pi}{2}$ mi²

C) $\frac{19\pi}{3}$ mi² D) 25π mi²

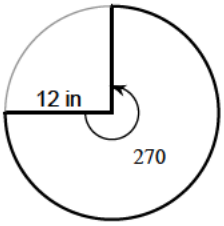
21)



A) $\frac{121\pi}{4}$ yd² B) $\frac{11\pi}{2}$ yd²

C) $\frac{605\pi}{12}$ yd² D) 1980π yd²

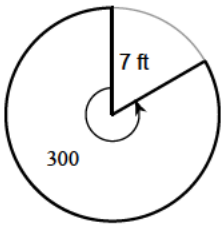
22)



A) 18π in² B) $\frac{343\pi}{8}$ in²

C) 108π in² D) 38880π in²

23)



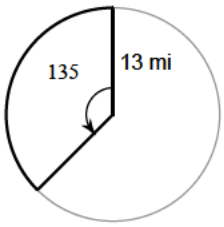
A) $\frac{2783\pi}{24}$ ft²

B) $\frac{245\pi}{6}$ ft²

C) 4π ft²

D) 49π ft²

24)



A) $\frac{507\pi}{8}$ mi²

B) $\frac{343\pi}{24}$ mi²

C) 169π mi²

D) 96π mi²

Answers to Assignment (ID: 7)

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

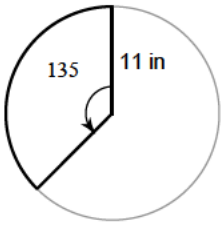
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

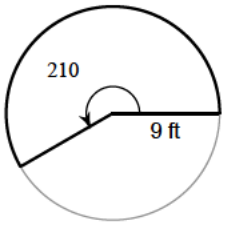
1)



A) 3π in^2 B) 22π in^2

C) $\frac{363\pi}{8}$ in^2 D) 121π in^2

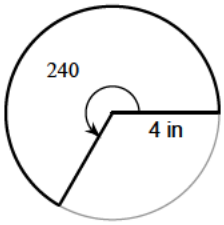
2)



A) 36π ft^2 B) $\frac{20\pi}{3}$ ft^2

C) $\frac{189\pi}{4}$ ft^2 D) 72π ft^2

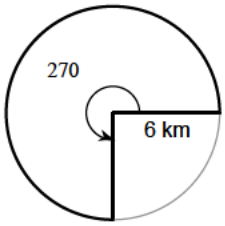
3)



A) $\frac{32\pi}{3}$ in^2 B) $\frac{575\pi}{24}$ in^2

C) 16π in^2 D) $\frac{16\pi}{3}$ in^2

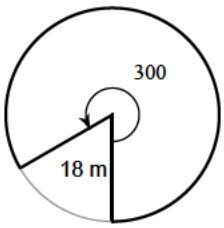
4)



A) $\frac{104\pi}{3}$ km^2 B) 27π km^2

C) $\frac{200\pi}{3}$ km^2 D) $\frac{76\pi}{3}$ km^2

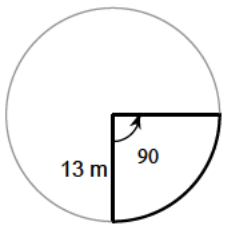
5)



A) 270π m^2 B) $\frac{245\pi}{2}$ m^2

C) 10800π m^2 D) 30π m^2

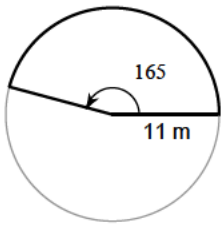
6)



A) 169π m^2 B) $\frac{169\pi}{4}$ m^2

C) $\frac{13\pi}{2}$ m^2 D) 25π m^2

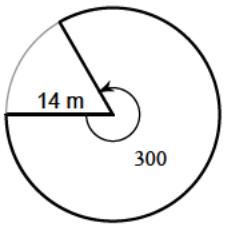
7)



A) $\frac{2873\pi}{24}$ m² B) 5π m²

C) $\frac{325\pi}{6}$ m² D) $\frac{1331\pi}{24}$ m²

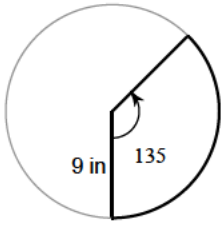
8)



A) $\frac{490\pi}{3}$ m² B) 28π m²

C) $\frac{69\pi}{8}$ m² D) $\frac{275\pi}{3}$ m²

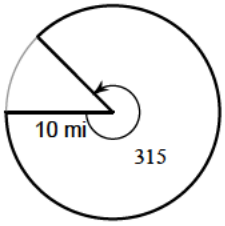
9)



A) 15π in² B) $\frac{243\pi}{8}$ in²

C) $\frac{27\pi}{4}$ in² D) $\frac{247\pi}{12}$ in²

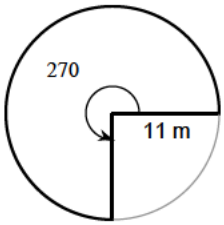
10)



A) $\frac{175\pi}{2}$ mi² B) $\frac{7\pi}{2}$ mi²

C) $\frac{35\pi}{2}$ mi² D) π mi²

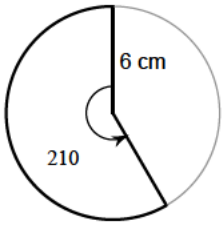
11)



A) $\frac{363\pi}{4}$ m² B) $\frac{825\pi}{4}$ m²

C) 121π m² D) $\frac{2023\pi}{8}$ m²

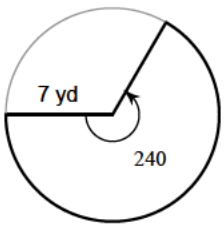
12)



A) $\frac{343\pi}{3}$ cm² B) 8π cm²

C) $\frac{10\pi}{3}$ cm² D) 21π cm²

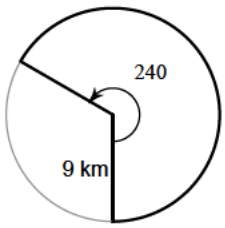
13)



A) $\frac{3\pi}{2}$ yd² B) $\frac{98\pi}{3}$ yd²

C) $\frac{28\pi}{3}$ yd² D) 14π yd²

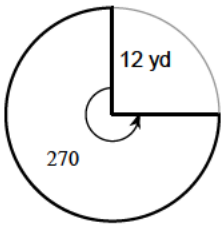
14)



A) 8π km² B) 54π km²

C) 12π km² D) $\frac{3971\pi}{24}$ km²

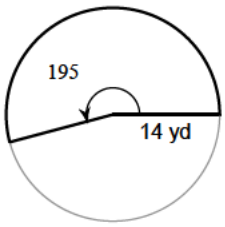
15)



A) 8π yd^2 B) 108π yd^2

C) $\frac{200\pi}{3}$ yd^2 D) 18π yd^2

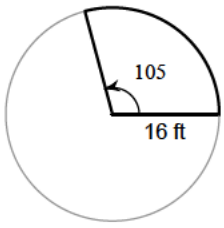
16)



A) $\frac{95\pi}{4}$ yd^2 B) $\frac{91\pi}{6}$ yd^2

C) $\frac{46\pi}{3}$ yd^2 D) $\frac{637\pi}{6}$ yd^2

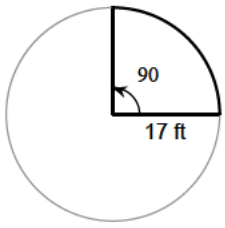
17)



A) $\frac{7\pi}{6}$ ft^2 B) $\frac{100\pi}{3}$ ft^2

C) $\frac{224\pi}{3}$ ft^2 D) $\frac{95\pi}{3}$ ft^2

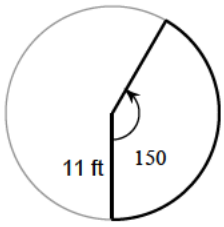
18)



A) $\frac{55\pi}{6}$ ft^2 B) $\frac{289\pi}{4}$ ft^2

C) $\frac{119\pi}{12}$ ft^2 D) 26010π ft^2

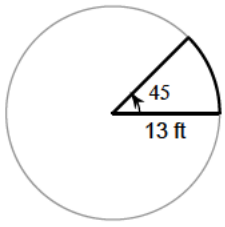
19)



A) $\frac{361\pi}{12}$ ft^2 B) $\frac{375\pi}{8}$ ft^2

C) $\frac{605\pi}{12}$ ft^2 D) 13π ft^2

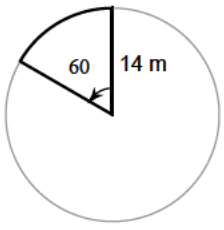
20)



A) $\frac{49\pi}{6}$ ft^2 B) $\frac{16\pi}{3}$ ft^2

C) 1170π ft^2 D) $\frac{169\pi}{8}$ ft^2

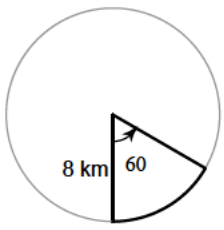
21)



A) $\frac{14\pi}{3}$ m^2 B) 28π m^2

C) $\frac{98\pi}{3}$ m^2 D) $\frac{1573\pi}{24}$ m^2

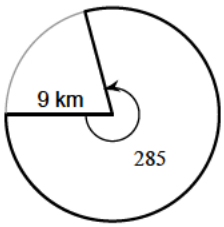
22)



A) 13π km^2 B) $\frac{32\pi}{3}$ km^2

C) $\frac{45\pi}{2}$ km^2 D) $\frac{16\pi}{3}$ km^2

23)



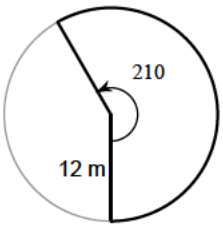
A) $\frac{77\pi}{12}$ km²

B) 81π km²

C) $\frac{1445\pi}{12}$ km²

D) $\frac{513\pi}{8}$ km²

24)



A) 24π m²

B) 84π m²

C) $\frac{3\pi}{4}$ m²

D) $\frac{135\pi}{2}$ m²

Answers to Assignment (ID: 8)

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

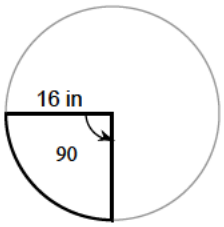
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

1)



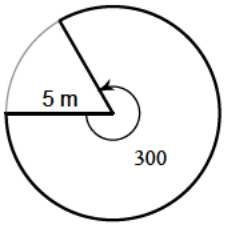
A) $-\frac{163622912\pi}{45}$ in²

B) 2880π in²

C) $\frac{19\pi}{4}$ in²

D) 64π in²

2)



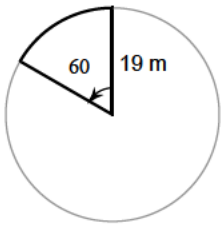
A) $\frac{3\pi}{2}$ m²

B) 5π m²

C) $\frac{50\pi}{3}$ m²

D) $\frac{125\pi}{6}$ m²

3)



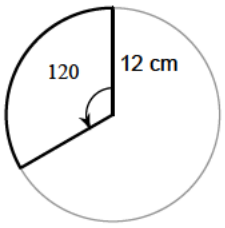
A) 129960π m²

B) 3π m²

C) $\frac{361\pi}{6}$ m²

D) $\frac{13\pi}{4}$ m²

4)



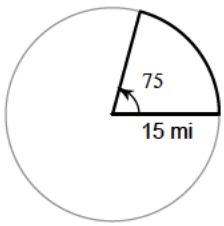
A) $\frac{19\pi}{12}$ cm²

B) 48π cm²

C) 24π cm²

D) 8π cm²

5)



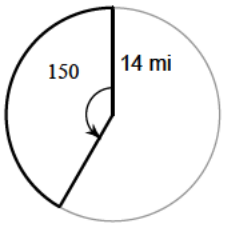
A) $\frac{1331\pi}{12}$ mi²

B) 10π mi²

C) 225π mi²

D) $\frac{375\pi}{8}$ mi²

6)



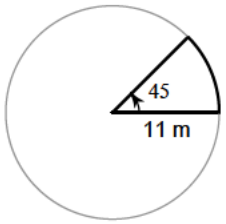
A) 196π mi²

B) $\frac{245\pi}{3}$ mi²

C) $\frac{92\pi}{3}$ mi²

D) $\frac{35\pi}{3}$ mi²

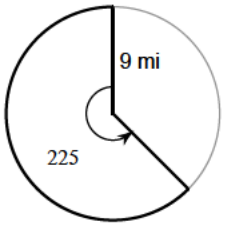
7)



A) $\frac{11\pi}{4}$ m² B) $\frac{55\pi}{6}$ m²

C) 121π m² D) $\frac{121\pi}{8}$ m²

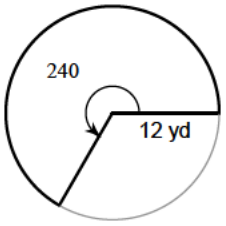
8)



A) $\frac{56\pi}{3}$ mi² B) $\frac{405\pi}{8}$ mi²

C) $\frac{175\pi}{6}$ mi² D) $\frac{25\pi}{3}$ mi²

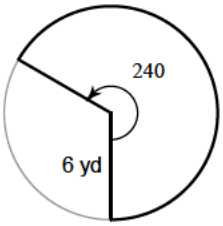
9)



A) $\frac{32\pi}{3}$ yd² B) $\frac{33\pi}{2}$ yd²

C) 96π yd² D) $\frac{2\pi}{3}$ yd²

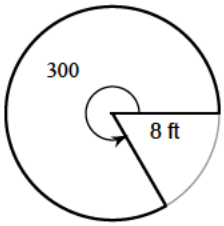
10)



A) 24π yd² B) 8640π yd²

C) $\frac{32\pi}{3}$ yd² D) $\frac{21\pi}{8}$ yd²

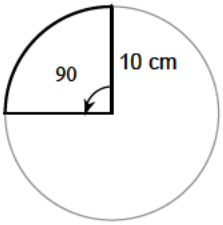
11)



A) $\frac{160\pi}{3}$ ft² B) $\frac{25\pi}{3}$ ft²

C) 64π ft² D) $\frac{91\pi}{6}$ ft²

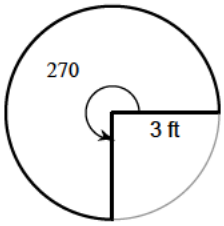
12)



A) 5π cm² B) 25π cm²

C) 8π cm² D) 20π cm²

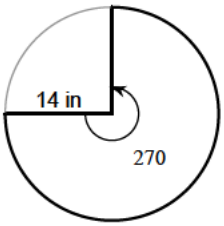
13)



A) $\frac{23\pi}{4}$ ft² B) 6π ft²

C) $\frac{9\pi}{2}$ ft² D) $\frac{27\pi}{4}$ ft²

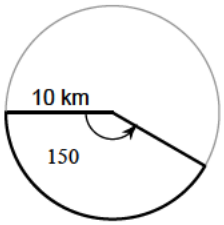
14)



A) 21π in² B) 4π in²

C) 196π in² D) 147π in²

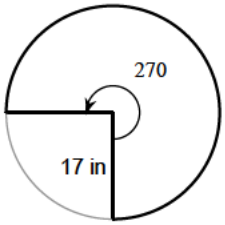
15)



A) $\frac{5\pi}{2}$ km² B) $\frac{5\pi}{6}$ km²

C) 7π km² D) $\frac{125\pi}{3}$ km²

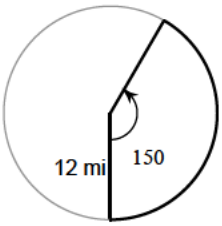
16)



A) $\frac{867\pi}{4}$ in² B) $\frac{16\pi}{3}$ in²

C) $\frac{187\pi}{12}$ in² D) $\frac{51\pi}{2}$ in²

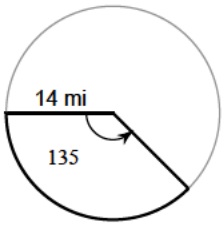
17)



A) 144π mi² B) 60π mi²

C) $\frac{22\pi}{3}$ mi² D) 21600π mi²

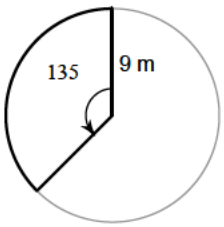
18)



A) $\frac{147\pi}{2}$ mi² B) $\frac{17\pi}{6}$ mi²

C) $\frac{77\pi}{12}$ mi² D) $\frac{225\pi}{4}$ mi²

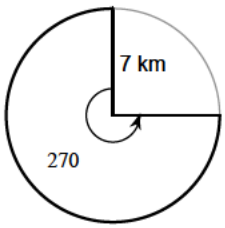
19)



A) $\frac{4\pi}{3}$ m² B) $\frac{49\pi}{3}$ m²

C) $\frac{243\pi}{8}$ m² D) $\frac{55\pi}{6}$ m²

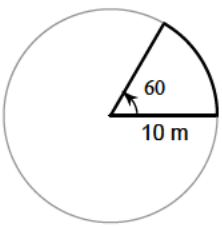
20)



A) $\frac{68\pi}{3}$ km² B) $\frac{45\pi}{2}$ km²

C) 3780π km² D) $\frac{147\pi}{4}$ km²

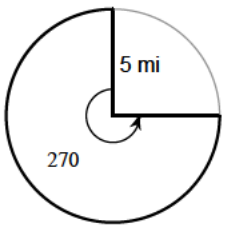
21)



A) $\frac{49\pi}{12}$ m² B) 12π m²

C) $\frac{50\pi}{3}$ m² D) $\frac{10\pi}{3}$ m²

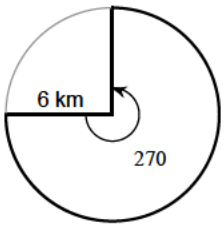
22)



A) $\frac{75\pi}{4}$ mi² B) $\frac{15\pi}{2}$ mi²

C) $\frac{35\pi}{6}$ mi² D) $\frac{4\pi}{3}$ mi²

23)



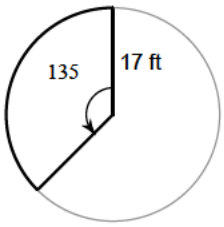
A) $\frac{56\pi}{3}$ km²

B) 9π km²

C) $\frac{10\pi}{3}$ km²

D) 27π km²

24)



A) 289π ft²

B) 8π ft²

C) $\frac{40\pi}{3}$ ft²

D) $\frac{867\pi}{8}$ ft²

Answers to Assignment (ID: 9)

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

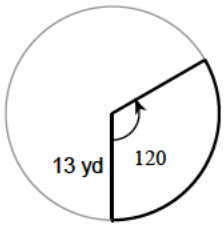
Geometry Name_____

Assignment

Date_____ Period____

Find the area of each sector.

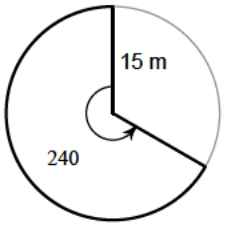
1)



A) $\frac{175\pi}{6}$ yd² B) 26π yd²

C) $\frac{169\pi}{3}$ yd² D) π yd²

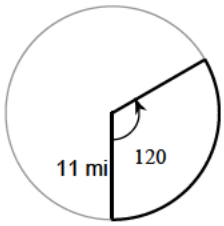
2)



A) $\frac{7\pi}{2}$ m² B) 150π m²

C) 20π m² D) $\frac{605\pi}{24}$ m²

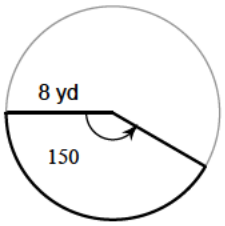
3)



A) $\frac{119\pi}{4}$ mi² B) 2640π mi²

C) $\frac{121\pi}{3}$ mi² D) $\frac{22\pi}{3}$ mi²

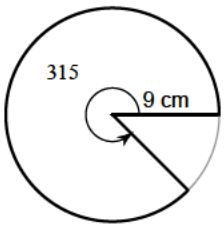
4)



A) $\frac{51\pi}{8}$ yd² B) $\frac{80\pi}{3}$ yd²

C) $\frac{20\pi}{3}$ yd² D) 9600π yd²

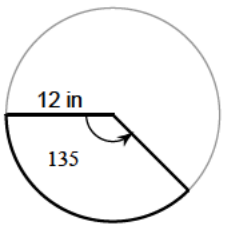
5)



A) $\frac{513\pi}{8}$ cm² B) $\frac{3\pi}{2}$ cm²

C) $\frac{567\pi}{8}$ cm² D) $\frac{133\pi}{4}$ cm²

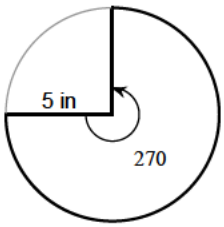
6)



A) 54π in² B) 2π in²

C) 9π in² D) $\frac{16\pi}{3}$ in²

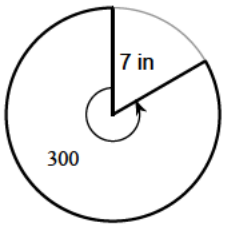
7)



A) $\frac{75\pi}{4}$ in^2 B) $\frac{15\pi}{2}$ in^2

C) $\frac{35\pi}{3}$ in^2 D) $\frac{11\pi}{3}$ in^2

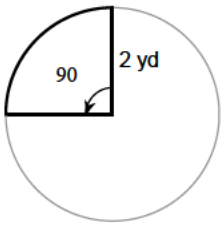
8)



A) 56π in^2 B) 14700π in^2

C) $\frac{245\pi}{6}$ in^2 D) 49π in^2

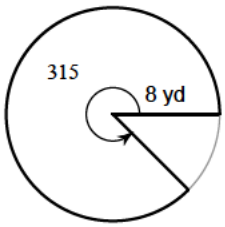
9)



A) 4π yd^2 B) π yd^2

C) $\frac{833\pi}{24}$ yd^2 D) $\frac{363\pi}{8}$ yd^2

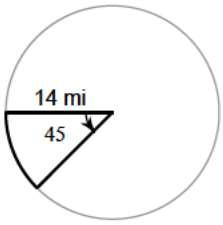
10)



A) 14π yd^2 B) 20160π yd^2

C) 56π yd^2 D) $\frac{539\pi}{24}$ yd^2

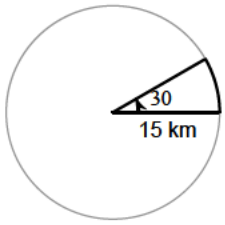
11)



A) $\frac{49\pi}{2}$ mi^2 B) 162π mi^2

C) 196π mi^2 D) 28π mi^2

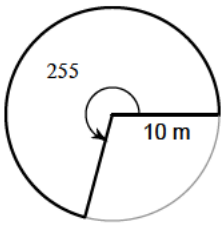
12)



A) $\frac{289\pi}{12}$ km^2 B) $\frac{221\pi}{12}$ km^2

C) $\frac{75\pi}{4}$ km^2 D) $\frac{15\pi}{2}$ km^2

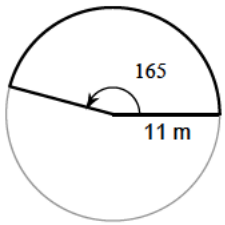
13)



A) 6π m^2 B) $\frac{425\pi}{6}$ m^2

C) $\frac{15\pi}{2}$ m^2 D) 5100π m^2

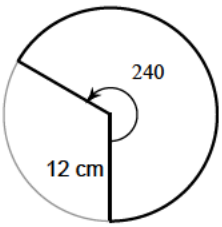
14)



A) $\frac{11\pi}{2}$ m^2 B) $\frac{121\pi}{12}$ m^2

C) $\frac{1331\pi}{24}$ m^2 D) $\frac{361\pi}{24}$ m^2

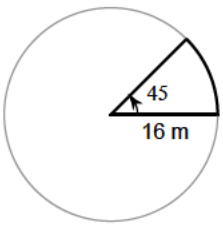
15)



A) 16π cm² B) 96π cm²

C) $\frac{9\pi}{4}$ cm² D) 24π cm²

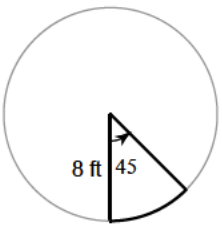
16)



A) $\frac{160\pi}{3}$ m² B) 32π m²

C) 147π m² D) $\frac{169\pi}{8}$ m²

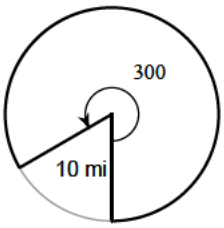
17)



A) $\frac{22\pi}{3}$ ft² B) 2880π ft²

C) 8π ft² D) $\frac{169\pi}{24}$ ft²

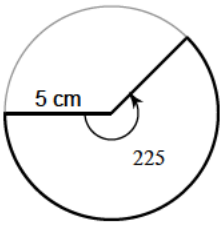
18)



A) $\frac{55\pi}{6}$ mi² B) $\frac{50\pi}{3}$ mi²

C) 66π mi² D) $\frac{250\pi}{3}$ mi²

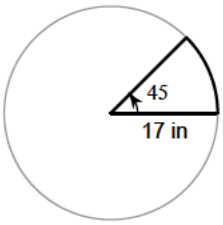
19)



A) $\frac{125\pi}{8}$ cm² B) $\frac{23\pi}{3}$ cm²

C) 98π cm² D) $\frac{4693\pi}{24}$ cm²

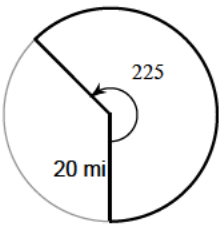
20)



A) 13005π in² B) $\frac{845\pi}{12}$ in²

C) 114π in² D) $\frac{289\pi}{8}$ in²

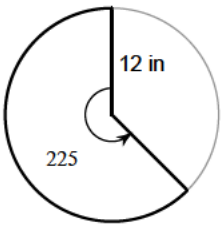
21)



A) 160π mi² B) $\frac{80\pi}{3}$ mi²

C) 250π mi² D) 25π mi²

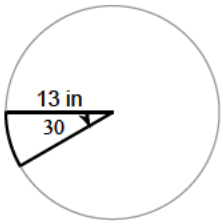
22)



A) $\frac{289\pi}{2}$ in² B) $\frac{825\pi}{8}$ in²

C) 18π in² D) 90π in²

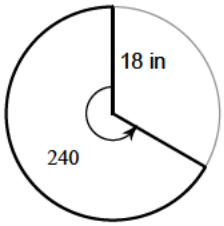
23)



A) $\frac{3\pi}{4}$ in^2 B) $\frac{169\pi}{12}$ in^2

C) $\frac{22\pi}{3}$ in^2 D) $\frac{21\pi}{2}$ in^2

24)



A) $\frac{17\pi}{6}$ in^2 B) 24π in^2

C) $\frac{63\pi}{4}$ in^2 D) 216π in^2

Answers to Assignment (ID: 10)

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