

SM3-A HW #9-6 (Arcs and Sectors)

Date _____ Period _____

Convert each degree measure into radians.

1) 195°

2) 300°

Convert each radian measure into degrees.

3) $\frac{\pi}{3}$

4) $-\frac{5\pi}{3}$

Find a positive and a negative coterminal angle for each given angle.

5) 48°

6) 285°

7) $-\frac{17\pi}{12}$

8) $\frac{5\pi}{6}$

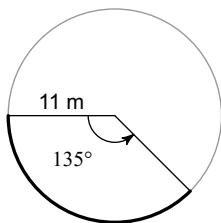
Find the area of each sector.

9) $r = 7 \text{ ft}, \theta = 240^\circ$

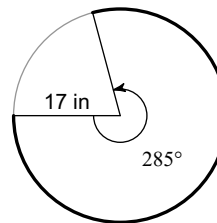
10) $r = 11 \text{ ft}, \theta = 225^\circ$

Find the length of each arc. Write your answer as a reduced fraction. Leave π in your answer.

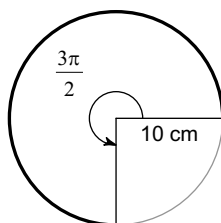
11)



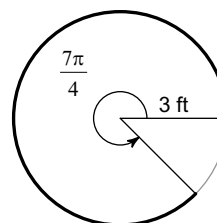
12)



13)

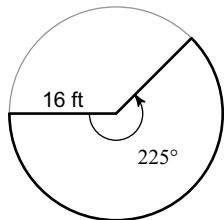


14)

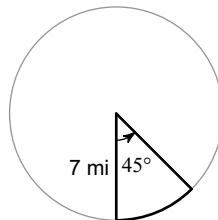


Find the area of each sector. Write your answer as a reduced fraction. Leave π in your answer.

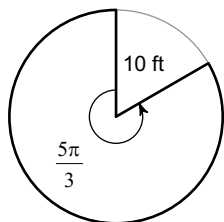
15)



16)



17)



18)

