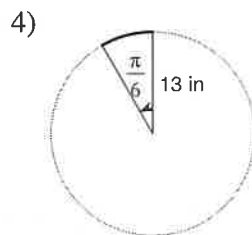
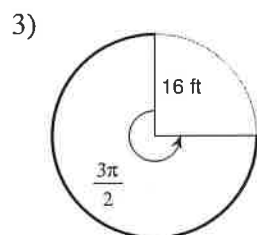
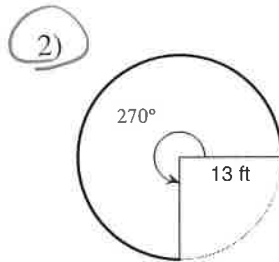
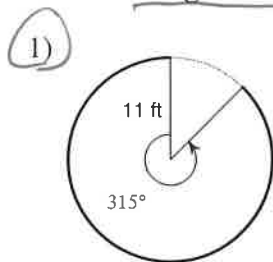


# Circled problems!

## Arc Length and Sector Area

Find the length of each arc. Round your answers to the nearest tenth.



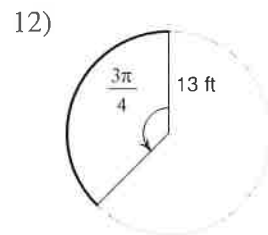
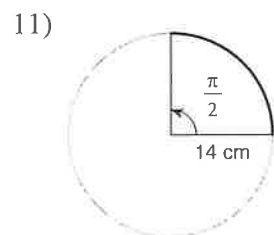
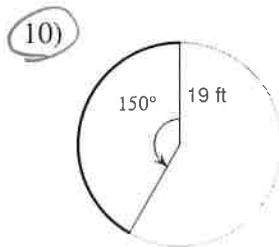
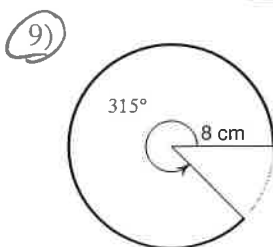
5)  $r = 18 \text{ cm}, \theta = 60^\circ$

6)  $r = 16 \text{ m}, \theta = 75^\circ$

7)  $r = 9 \text{ ft}, \theta = \frac{7\pi}{4}$

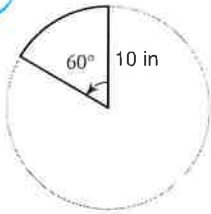
8)  $r = 14 \text{ ft}, \theta = \frac{19\pi}{12}$

Find the length of each arc. ~~Do not round.~~ Round to nearest hundredth.

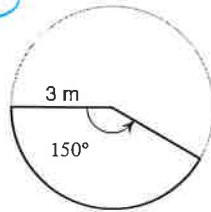


Find the area of each sector. Round your answers to the nearest tenth.

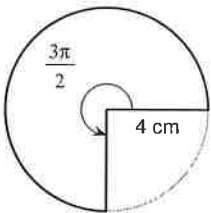
13)



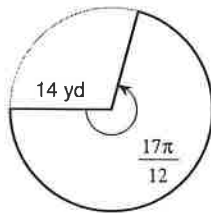
14)



15)

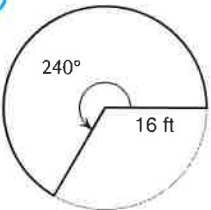


16)

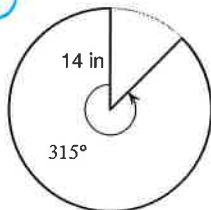


Find the area of each sector. ~~Do not round.~~ Round to the nearest hundredth.

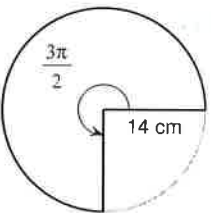
17)



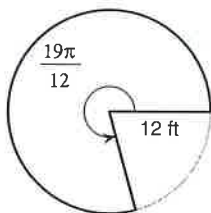
18)



19)



20)



21)  $r = 10$  mi,  $\theta = \frac{\pi}{2}$

22)  $r = 12$  yd,  $\theta = \frac{5\pi}{3}$

23)  $r = 7$  km,  $\theta = 60^\circ$

24)  $r = 7$  mi,  $\theta = 225^\circ$