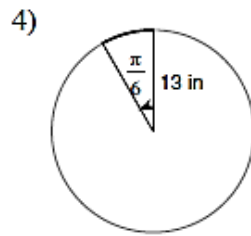
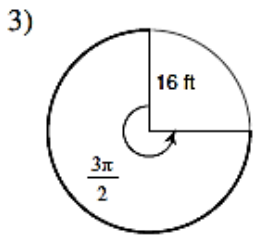
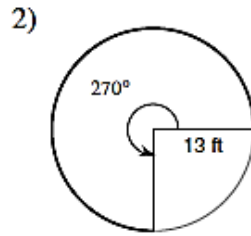
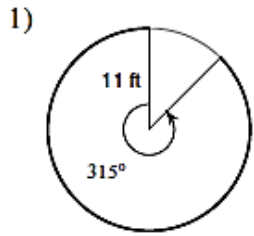


Unit 3 Day 3 HW(1)

Arc Length and Sector Area

Date \_\_\_\_\_ Period \_\_\_\_\_

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



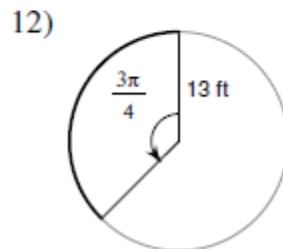
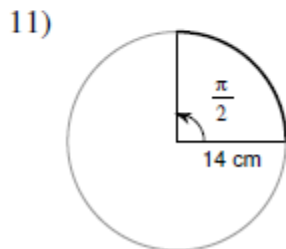
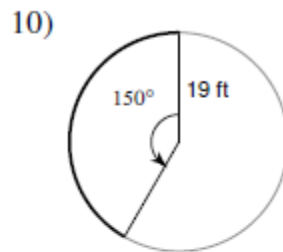
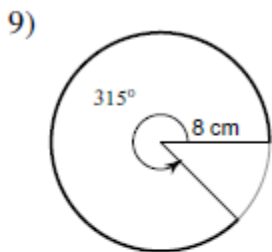
5)  $r = 18 \text{ cm}, \theta = 60^\circ$

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

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

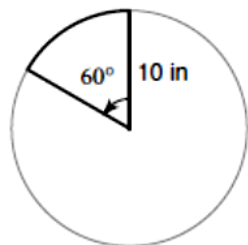
8)  $r = 14 \text{ ft}, \theta = \frac{19\pi}{12}$

Find the length of each arc. Do not round.

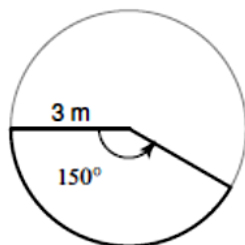


Find the area of each sector. Round your answers to the nearest tenth.

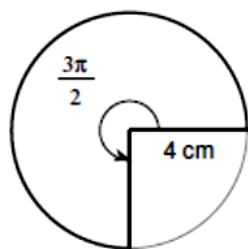
13)



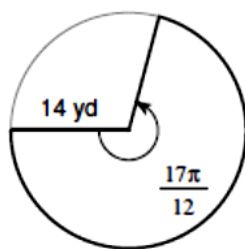
14)



15)

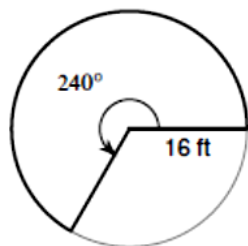


16)

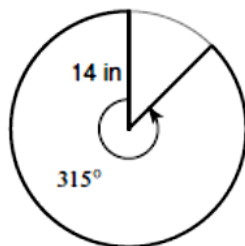


Find the area of each sector. Do not round.

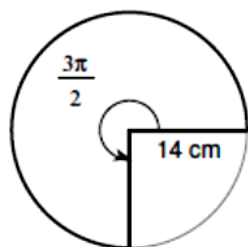
17)



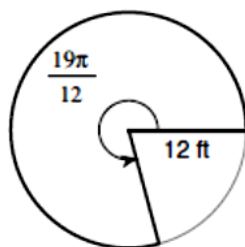
18)



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,  $\theta = 225^\circ$