

## 1.1c Arc Length &amp; Area of a Sector

Date \_\_\_\_\_

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

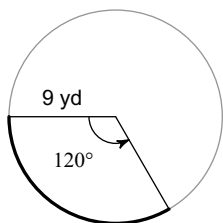
1)  $r = 9$  in,  $\theta = 315^\circ$

2)  $r = 14$  in,  $\theta = 120^\circ$

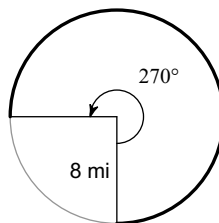
3)  $r = 12$  cm,  $\theta = 225^\circ$

4)  $r = 14$  cm,  $\theta = 90^\circ$

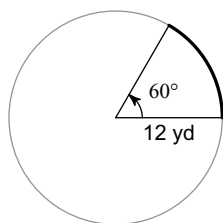
5)



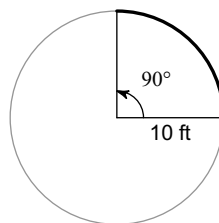
6)



7)



8)



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

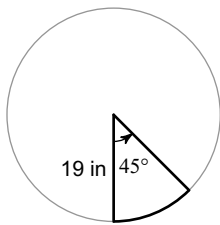
9)  $r = 12$  cm,  $\theta = 120^\circ$

10)  $r = 10$  yd,  $\theta = 225^\circ$

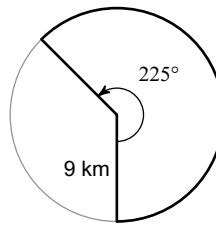
11)  $r = 8$  mi,  $\theta = 210^\circ$

12)  $r = 6$  yd,  $\theta = 105^\circ$

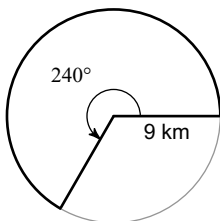
13)



14)



15)



16)

