

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Arc Length and Sector Area****Find the length of each arc. Round your answers to the nearest tenth.**

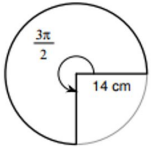
1)  $r = 15 \text{ ft}, \theta = 95^\circ$

2)  $r = 28 \text{ cm}, \theta = 45^\circ$

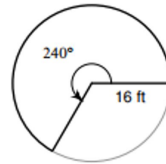
3)  $r = 12 \text{ m}, \theta = 85^\circ$

**Find area of a sector. Do not round.**

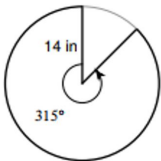
4)



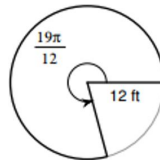
5)



6)



7)

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

8)  $r = 22 \text{ ft}, \theta = 60^\circ$



1)  $r = 15 \text{ ft}, \theta = 95^\circ$

**25 ft**

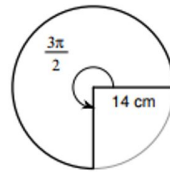
2)  $r = 28 \text{ cm}, \theta = 45^\circ$

**22 cm**

3)  $r = 12 \text{ m}, \theta = 85^\circ$

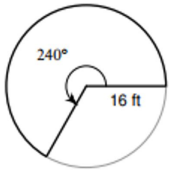
**18 m**

4)



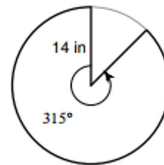
**$147 \pi \text{ cm}^2$**

5)



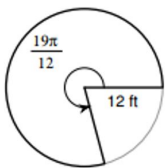
**$\frac{512 \pi}{3} \text{ ft}^2$**

6)



**$\frac{343 \pi}{2} \text{ in}^2$**

7)



**$114 \pi \text{ ft}^2$**

8)  $r = 22 \text{ ft}, \theta = 60^\circ$

**23 ft**