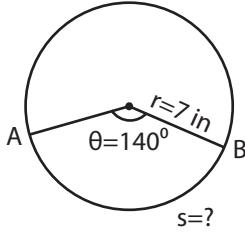


Length of Arc

Example:



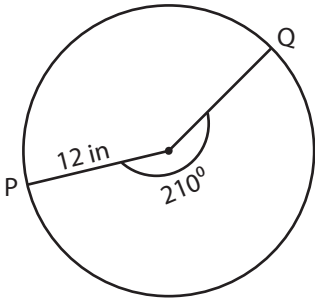
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

$$= \frac{140^\circ \times 3.14 \times 7}{180^\circ}$$

Length of the arc AB = **17.10 in**

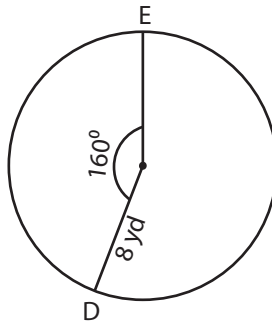
Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



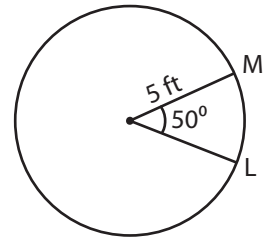
Length of the arc PQ = _____

2)



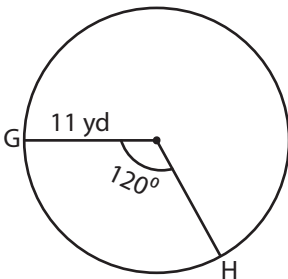
Length of the arc DE = _____

3)



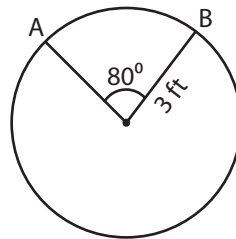
Length of the arc LM = _____

4)



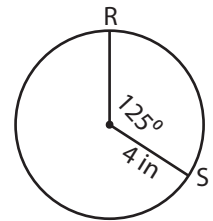
Length of the arc GH = _____

5)



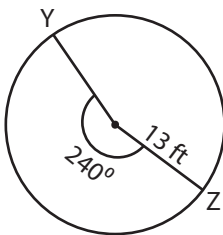
Length of the arc AB = _____

6)



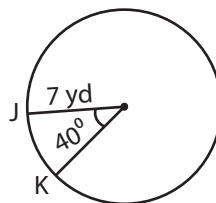
Length of the arc RS = _____

7)



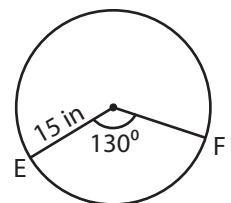
Length of the arc YZ = _____

8)



Length of the arc JK = _____

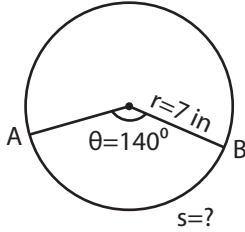
9)



Length of the arc EF = _____

Length of Arc

Example:



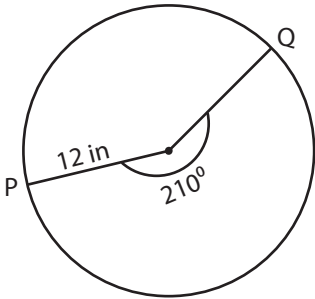
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

$$= \frac{140^\circ \times 3.14 \times 7}{180^\circ}$$

Length of the arc AB = **17.10 in**

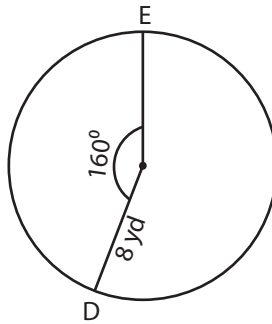
Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



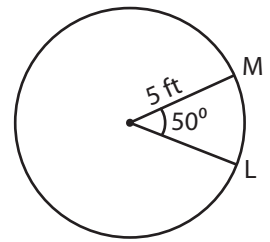
Length of the arc PQ = **43.96 in**

2)



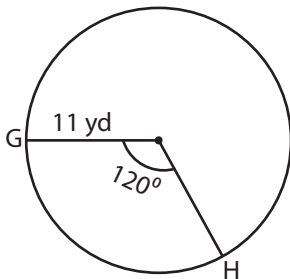
Length of the arc DE = **22.33 yd**

3)



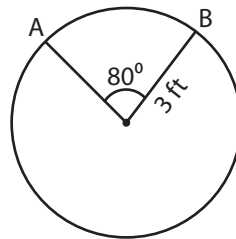
Length of the arc LM = **4.36 ft**

4)



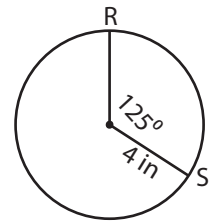
Length of the arc GH = **23.03 yd**

5)



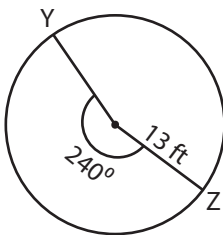
Length of the arc AB = **4.19 ft**

6)



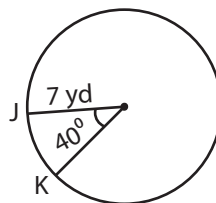
Length of the arc RS = **8.72 in**

7)



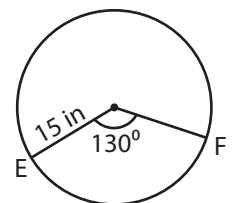
Length of the arc YZ = **54.43 ft**

8)



Length of the arc JK = **4.88 yd**

9)



Length of the arc EF = **34.02 in**