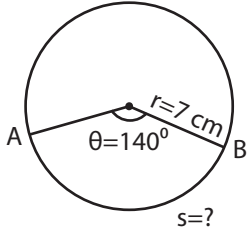


### Finding Arc Length

Example:



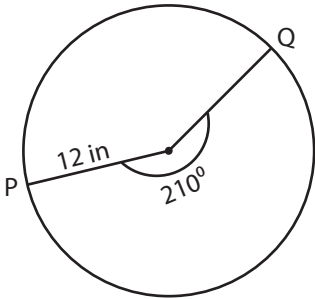
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

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

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

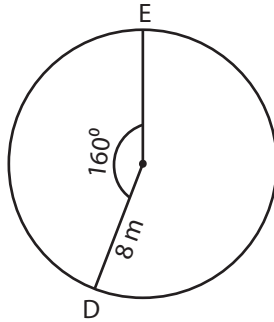
Find the arc length of each sector. Round the answer to two decimal places. ( use  $\pi=3.14$  )

1)



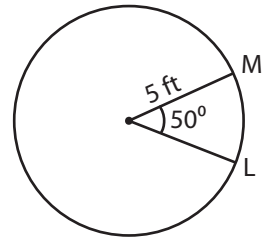
Length of the arc PQ = \_\_\_\_\_

2)



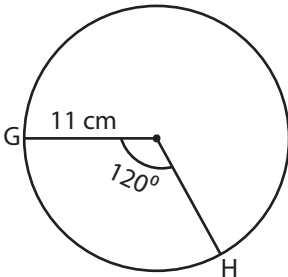
Length of the arc DE = \_\_\_\_\_

3)



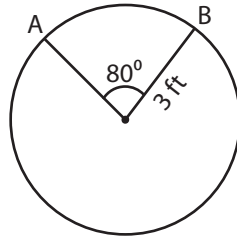
Length of the arc LM = \_\_\_\_\_

4)



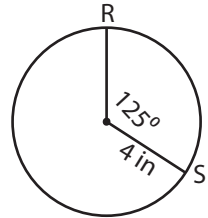
Length of the arc GH = \_\_\_\_\_

5)



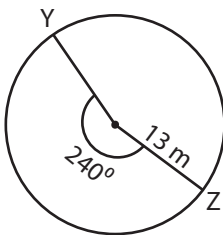
Length of the arc AB = \_\_\_\_\_

6)



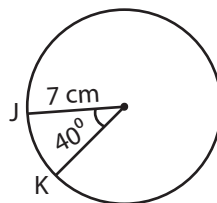
Length of the arc RS = \_\_\_\_\_

7)



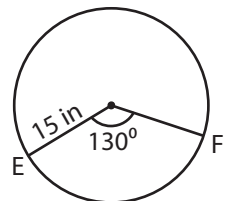
Length of the arc YZ = \_\_\_\_\_

8)



Length of the arc JK = \_\_\_\_\_

9)



Length of the arc EF = \_\_\_\_\_