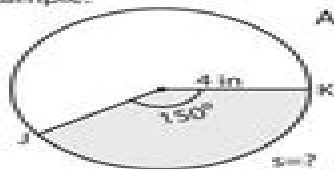


Arc Length and Area of a Sector

Sheet 1

Example:



$$\begin{aligned}\text{Arc length of a sector (s)} &= \frac{\theta \times \pi \times r}{180^\circ} \\ &= \frac{150^\circ \times 3.14 \times 4}{180^\circ} \\ &= \mathbf{10.47 \text{ in}}\end{aligned}$$

$$\begin{aligned}\text{Area} &= \frac{s \times r}{2} \\ &= \frac{10.47 \times 4}{2} \\ &= \mathbf{20.94 \text{ in}^2}\end{aligned}$$

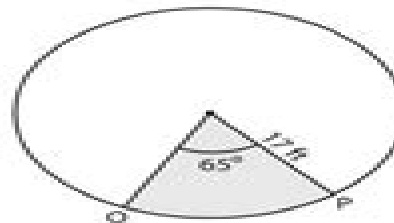
Find the length of the arc and area of the shaded region. Round the answer to two decimal places. (use $\pi = 3.14$)

1)



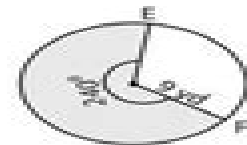
Length of the arc MN = _____
Area of a sector = _____

2)



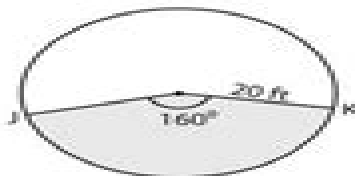
Length of the arc OP = _____
Area of a sector = _____

3)



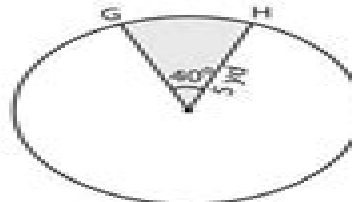
Length of the arc EF = _____
Area of a sector = _____

4)



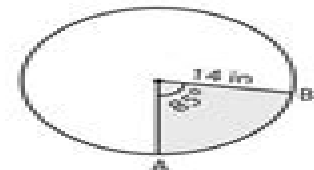
Length of the arc JK = _____
Area of a sector = _____

5)



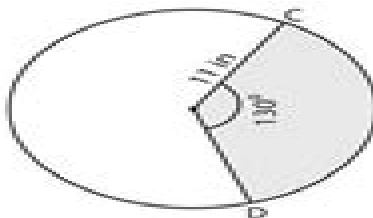
Length of the arc GH = _____
Area of a sector = _____

6)



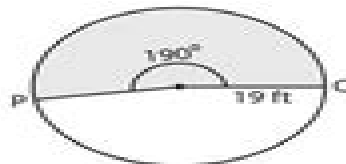
Length of the arc AB = _____
Area of a sector = _____

7)



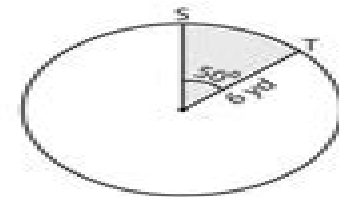
Length of the arc CD = _____
Area of a sector = _____

8)



Length of the arc PQ = _____
Area of a sector = _____

9)



Length of the arc ST = _____
Area of a sector = _____

Areas Of Circles And Sectors Answer Key

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