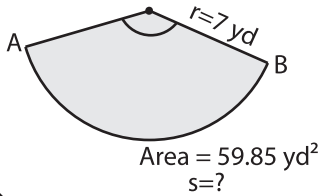


Finding Arc Length

Example:



$$\text{Area of a sector} = \frac{\theta \times \pi \times r^2}{360^\circ}$$

$$59.85 = \frac{\theta \times 3.14 \times 7 \times 7}{360^\circ}$$

$$\theta = 140^\circ$$

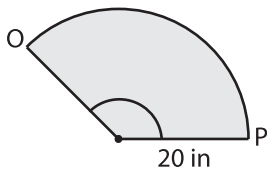
$$\text{Length of the arc AB} = \frac{\theta \times \pi \times r}{180^\circ}$$

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

$$= 17.10 \text{ yd}$$

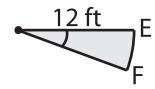
Find the arc length for each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



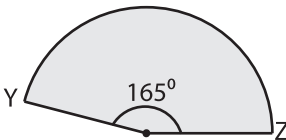
Length of the arc OP = _____

2)



Length of the arc EF = _____

4)



Length of the arc YZ = _____

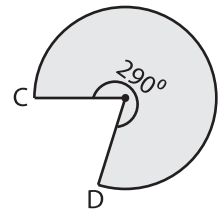
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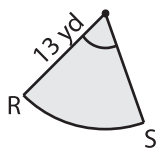
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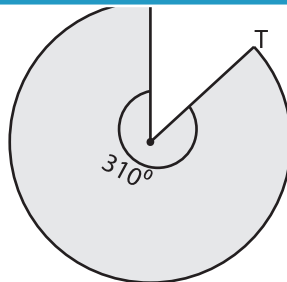


Length of the arc CD = _____

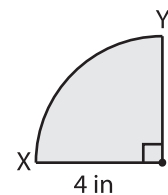
7)



Length of the arc RS = _____



Length of the arc ST = _____



Length of the arc XY = _____