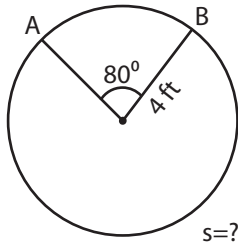


Length of Arc

Example:



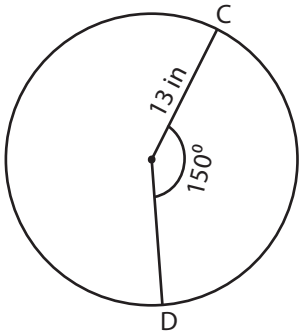
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

$$= \frac{80^\circ \times 3.14 \times 4}{180^\circ}$$

Length of the arc AB = **5.58 ft**

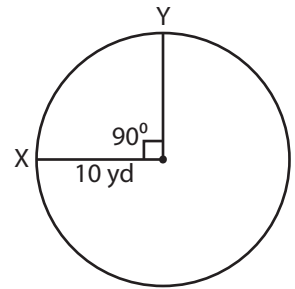
Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



Length of the arc CD = _____

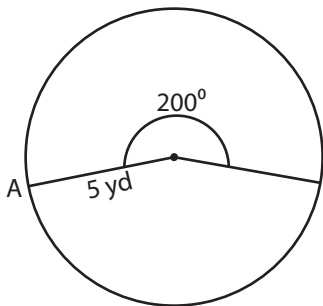
2)



Length of the arc XY = _____

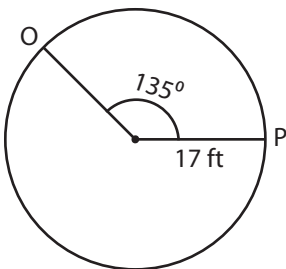
3)

4)

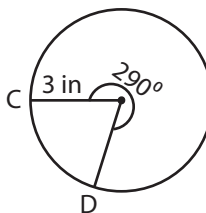


Length of the arc AB = _____

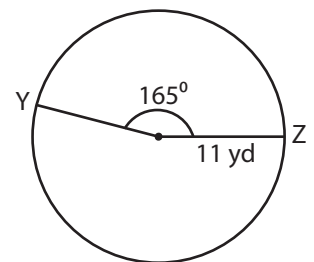
7)



Length of the arc OP = _____



Length of the arc CD = _____



Length of the arc YZ = _____

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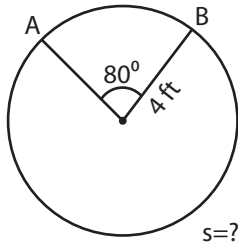
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Length of Arc

Example:



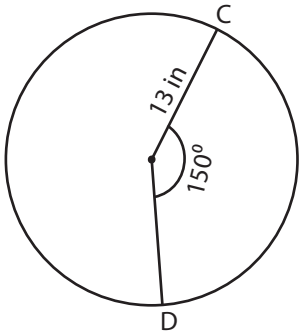
$$\text{Arc length of a sector (s)} = \frac{\text{central angle}}{180^\circ} \times \pi \times \text{radius} = \frac{\theta \times \pi \times r}{180^\circ}$$

$$= \frac{80^\circ \times 3.14 \times 4}{180^\circ}$$

Length of the arc AB = **5.58 ft**

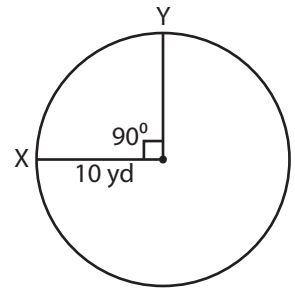
Find the arc length of each sector. Round the answer to two decimal places. (use $\pi=3.14$)

1)



Length of the arc CD = **34.02**

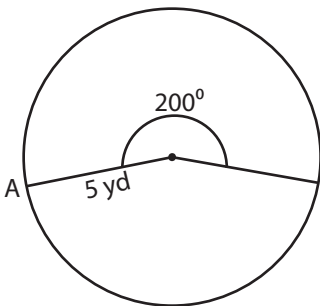
2)



Length of the arc XY = **15.7 yd**

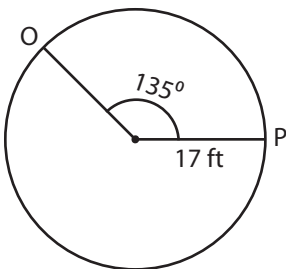
3)

4)

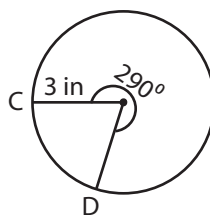


Length of the arc AB = **17.44**

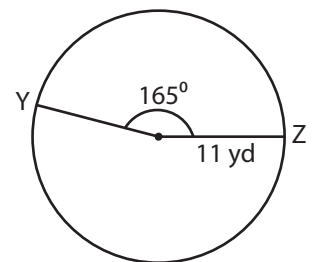
7)



Length of the arc OP = **40.04 ft**



Length of the arc CD = **15.18 in**



Length of the arc YZ = **31.66 yd**

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