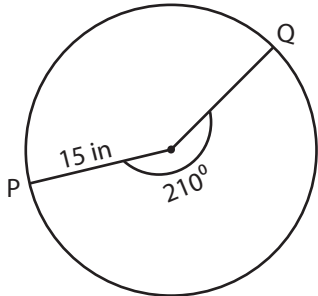


Radius, Central Angle & Arc Length

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

Find the missing one. Round the radius and central angle to the nearest whole number. Round the arc length to two decimal places. (use $\pi = 3.14$)

1)

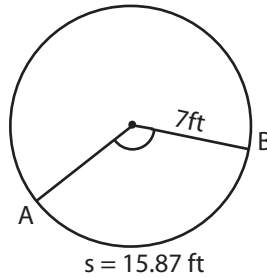


Radius = _____

Central angle = _____

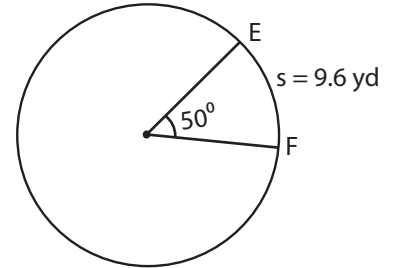
Length of the arc PQ = _____

2)



$s = 15.87 \text{ ft}$

3)

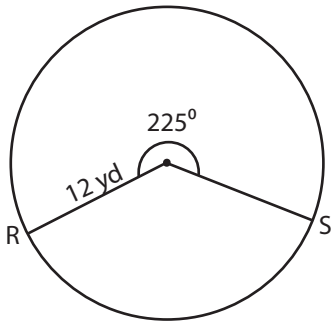


Radius = _____

Central angle = _____

Length of the arc EF = _____

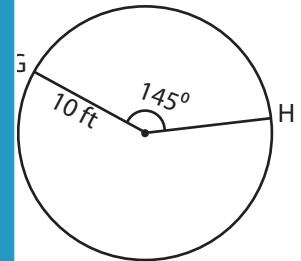
4)



Radius = _____

Central angle = _____

Length of the arc RS = _____

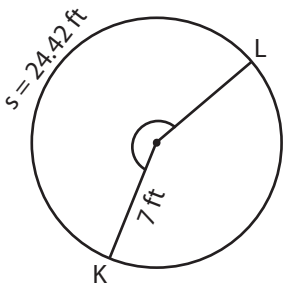


Radius = _____

Central angle = _____

Length of the arc GH = _____

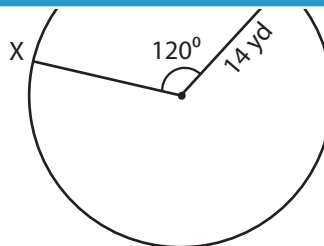
7)



Radius = _____

Central angle = _____

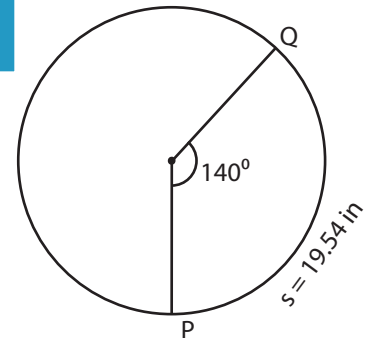
Length of the arc KL = _____



Radius = _____

Central angle = _____

Length of the arc XY = _____



Radius = _____

Central angle = _____

Length of the arc PQ = _____

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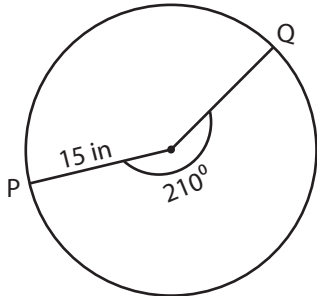
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Radius, Central Angle & Arc Length

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

Find the missing one. Round the radius and central angle to the nearest whole number.
Round the arc length to two decimal places. (use $\pi = 3.14$)

1)

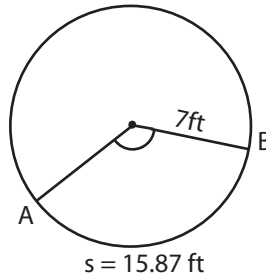


Radius = 15

Central angle = 21

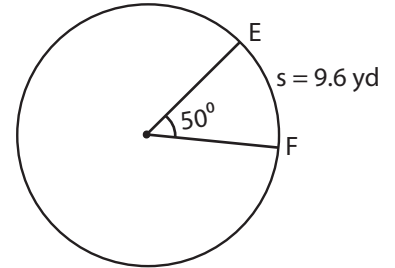
Length of the arc PQ = 54.9

2)



$s = 15.87 \text{ ft}$

3)

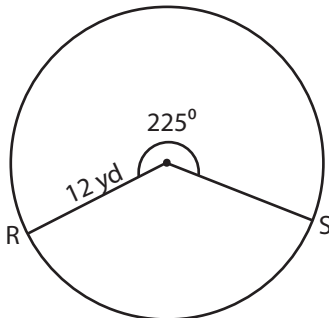


Radius = 11 yd

Central angle = 50°

Length of the arc EF = 9.6 yd

4)



Radius = 12

Central angle = 225

Length of the arc RS = 47.1

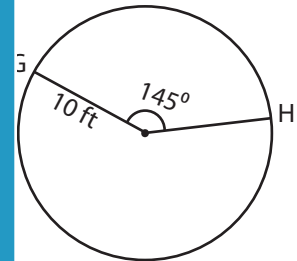
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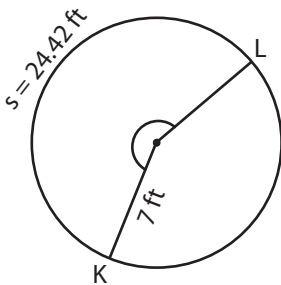


Radius = 10 ft

Central angle = 145°

Length of the arc GH = 25.29 ft

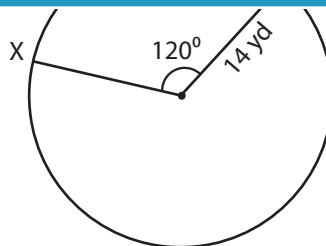
7)



Radius = 7 ft

Central angle = 200°

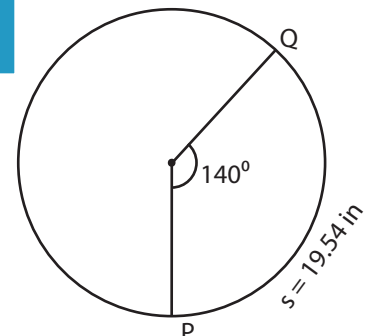
Length of the arc KL = 24.42 ft



Radius = 14 yd

Central angle = 120°

Length of the arc XY = 29.31 yd



Radius = 8 in

Central angle = 140°

Length of the arc PQ = 19.54 in