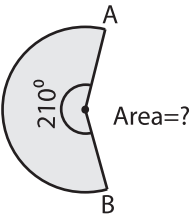


Finding Area of a Sector

Example:



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

$$33.27 = \frac{210^\circ \times 3.14 \times r}{180^\circ}$$

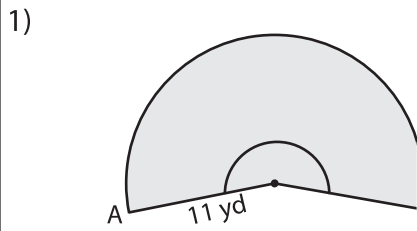
$r = 9 \text{ ft}$

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

$$= \frac{210 \times 3.14 \times 9 \times 9}{360^\circ}$$

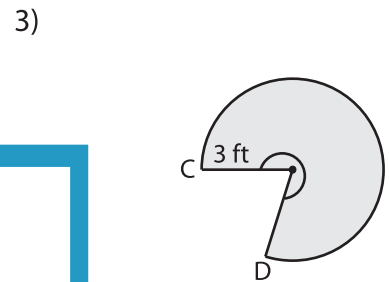
$= 148.37 \text{ ft}^2$

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



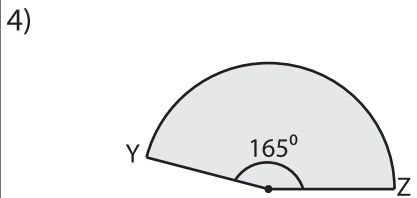
Length of the arc AB = 38.38 yd

Area = _____



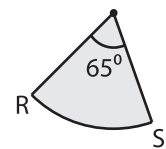
Length of the arc CD = 15.18 ft

Area = _____



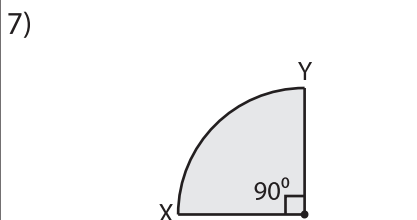
Length of the arc YZ = 37.42 in

Area = _____



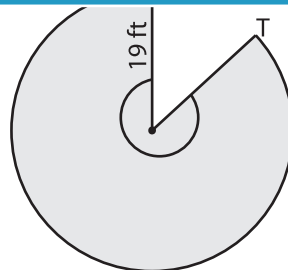
Length of the arc RS = 9.07 ft

Area = _____



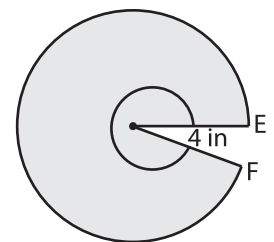
Length of the arc XY = 25.12 yd

Area = _____



Length of the arc ST = 102.75 ft

Area = _____



Length of the arc EF = 23.72 in

Area = _____

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