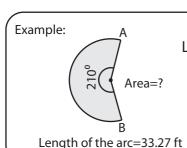
Finding Area of a Sector



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

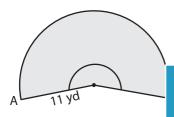
$$33.27 = \frac{210^{0} \text{x} \ 3.14 \text{ x r}}{180^{0}}$$

r = **9 ft**

Length of the arc =
$$\frac{\theta \times \pi \times r}{180^{\circ}}$$
 Area of a sector = $\frac{\theta \times \pi \times r^{2}}{360^{\circ}}$ = $\frac{210^{\circ} \times 3.14 \times r}{180^{\circ}}$ = $\frac{210 \times 3.14 \times 9 \times 9}{360^{\circ}}$

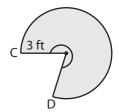
Find the area of each shaded region. Round the answer to two decimal places. (use π =3.14)

1)



2)





th of the arc CD = 15.18 ft

PREVIEW

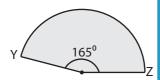
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Length of the arc AB = 38.38 y



4)



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th of the arc RS = 9.07 ft

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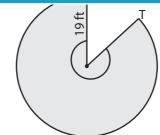
Area =_____

7)



Length of the arc XY = 25.12 yd

Length of the arc YZ = 37.42 in



Length of the arc ST = 102.75 ft

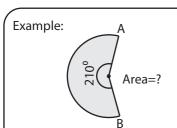
Length of the arc EF = 23.72 in

Area = _____



Area = _____

Finding Area of a Sector



Length of the arc=33.27 ft

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

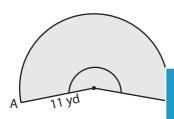
$$33.27 = \frac{210^{0} \times 3.14 \times r}{180^{0}}$$

r = **9 ft**

Area of a sector = $\frac{\theta \times \pi \times r^2}{360^0}$ = $\frac{210 \times 3.14 \times 9 \times 9}{360^0}$ = 148.37 ft²

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

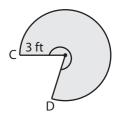
1)



2)

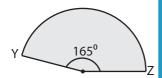


3)



Length of the arc AB = 38.38 y

4)



Length of the arc YZ = 37.42 in

Area = **243.2**2

PREVIEW

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th of the arc CD = 15.18 ft

Area = 22.77 ft²



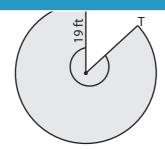
th of the arc RS = 9.07 ft

Area =
$$36.28 \, \text{ft}^2$$

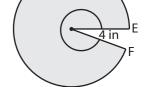
7)



Length of the arc XY = 25.12 yd



Length of the arc ST = 102.75 ft



Length of the arc EF = 23.72 in

Area = 200.96 yd^2

Area = **976.10 ft²**

Area = 47.45 in²