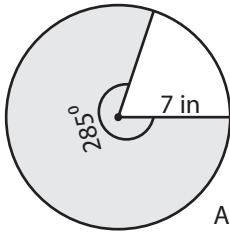


Area of a Sector

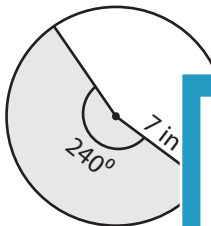
Example:



$$\begin{aligned} \text{Area of a sector} &= \frac{\text{central angle}}{360^\circ} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^\circ} \\ &= \frac{285^\circ \times 3.14 \times 7 \times 7}{360^\circ} \\ &= \mathbf{121.81 \text{ in}^2} \end{aligned}$$

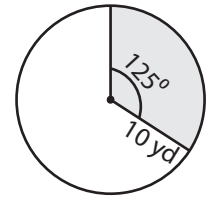
Find the area of each shaded region. Round the answer to two decimal places. (use $\pi=3.14$)

1)



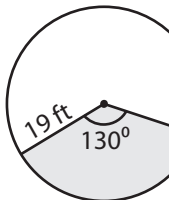
Area = _____

2)

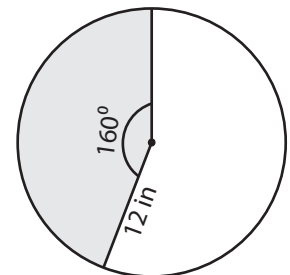


Area = _____

4)

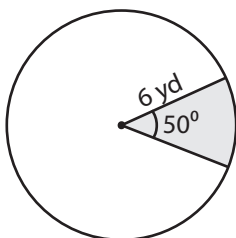


Area = _____

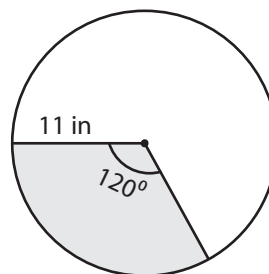


Area = _____

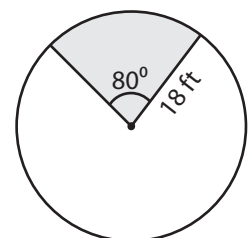
7)



Area = _____



Area = _____



Area = _____

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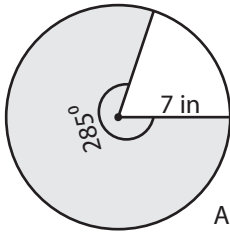
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Area of a Sector

Sheet 2

Example:

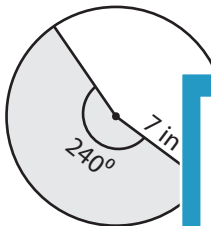


Area=?

$$\begin{aligned} \text{Area of a sector} &= \frac{\text{central angle}}{360^\circ} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^\circ} \\ &= \frac{285^\circ \times 3.14 \times 7 \times 7}{360^\circ} \\ &= \mathbf{121.81 \text{ in}^2} \end{aligned}$$

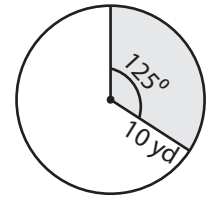
Find the area of each shaded region. Round the answer to two decimal places. (use $\pi=3.14$)

1)



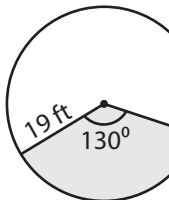
Area = 102.57

2)



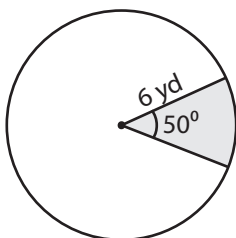
Area = 109.03 yd²

4)

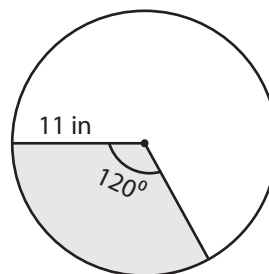


Area = 409.33

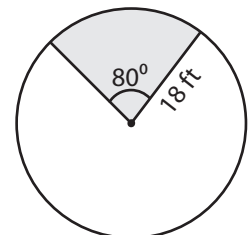
7)



Area = 15.7 yd²



Area = 126.65 in²



Area = 226.08 ft²

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