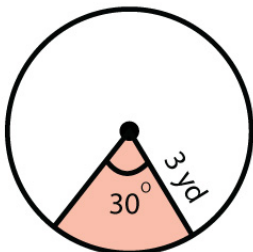


Name : _____

Score : _____ Date : _____

Area of Sector of a Circle

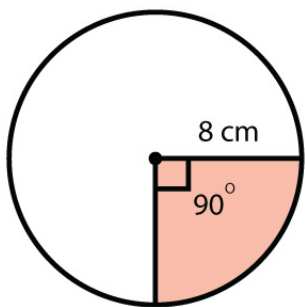
Solved Example :



$$\begin{aligned} \text{Area of a sector} &= \frac{\text{central angle}}{360^\circ} \times \pi \times (\text{radius})^2 \\ &= \frac{Q \times \pi \times r^2}{360^\circ} \\ &= \frac{30^\circ \times 3.14 \times 3 \times 3}{360^\circ} = 2.35 \text{ yd}^2 \end{aligned}$$

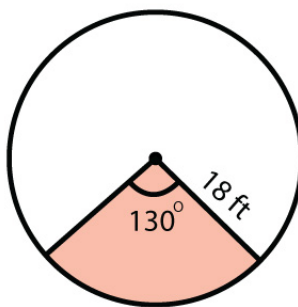
Find the area of the shaded region. Round the area to two decimal places (use $\pi = 3.14$)

1



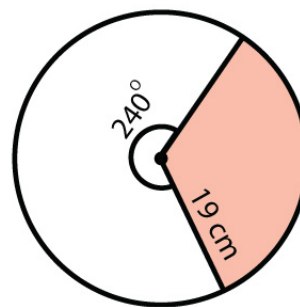
Area = _____

2



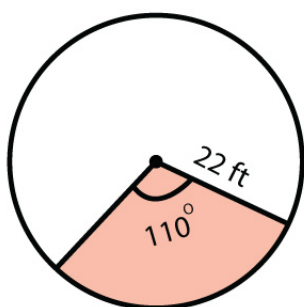
Area = _____

3



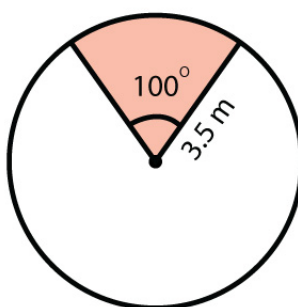
Area = _____

4



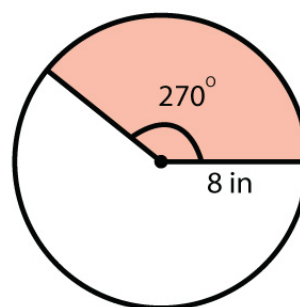
Area = _____

5



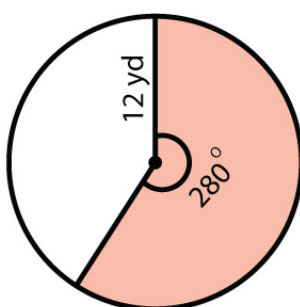
Area = _____

6



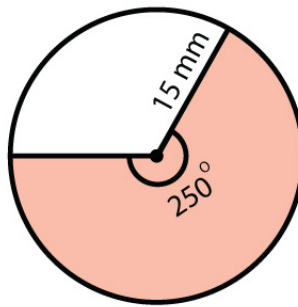
Area = _____

7



Area = _____

8



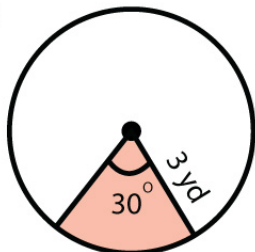
Area = _____

Name : _____

Score : _____ Date : _____

Area of Sector of a Circle

Solved Example :

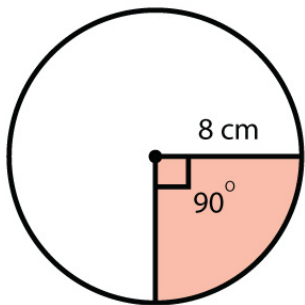


Answers

$$\begin{aligned} \text{Area of a sector} &= \frac{\text{central angle}}{360^\circ} \times \pi \times (\text{radius})^2 \\ &= \frac{Q \times \pi \times r^2}{360^\circ} \\ &= \frac{30^\circ \times 3.14 \times 3 \times 3}{360^\circ} = 2.35 \text{ yd}^2 \end{aligned}$$

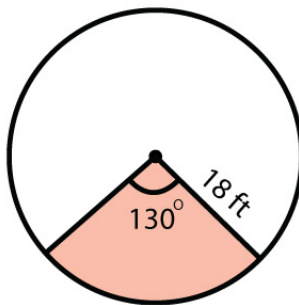
Find the area of the shaded region. Round the area to two decimal places (use $\pi = 3.14$)

1



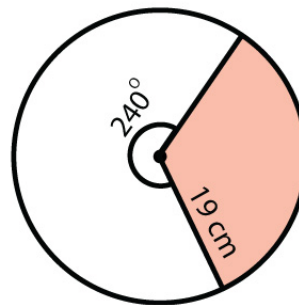
Area = 50.26 cm²

2



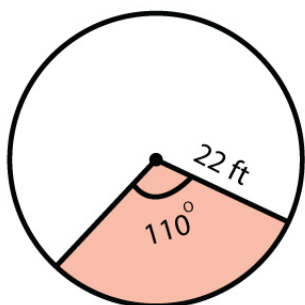
Area = 367.56 ft²

3



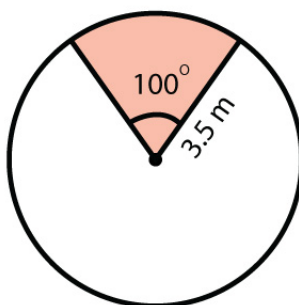
Area = 756.07 cm²

4



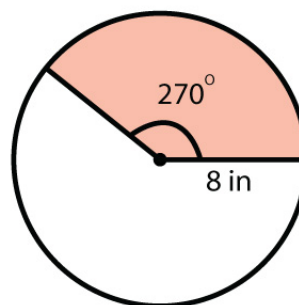
Area = 464.60 ft²

5



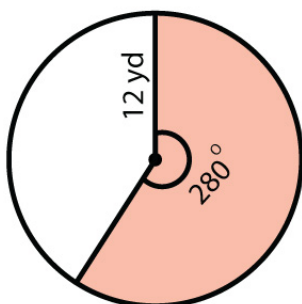
Area = 10.69 m²

6



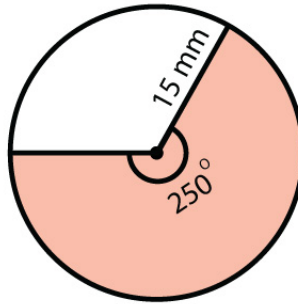
Area = 150.79 in²

7



Area = 351.85 yd²

8



Area = 490.87 mm²