Radius, Central Angle & Area
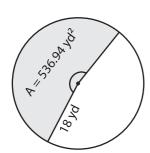
$$\text{Area of a sector} = \frac{\text{central angle}}{360^0} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^0}$$
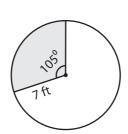
Find the missing one. Round the radius and central angle to the nearest whole number.
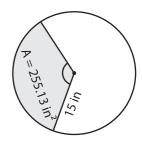Round the area to two decimal places. (use $\pi = 3.14$)

1)

$A = 536.94 \text{ yd}^2$, 18 yd

Radius = _____

Central angle = _____

Area of a sector = _____

2)

105^0, 7 ft

3)

$A = 255.13 \text{ in}^2$, 15 in

Radius = _____

Central angle = _____

Area of a sector = _____

4)

11 in, 210^0

Radius = _____
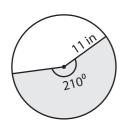
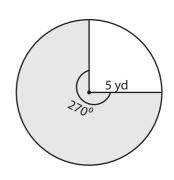Central angle = _____

Area of a sector = _____

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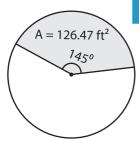
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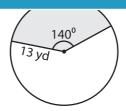5 yd, 270^0

Radius = _____

Central angle = _____

Area of a sector = _____

7)

$A = 126.47 \text{ ft}^2$, 145^0

Radius = _____

Central angle = _____

Area of a sector = _____

140^0, 13 yd

Radius = _____
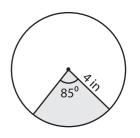
Central angle = _____

Area of a sector = _____

4 in, 85^0

Radius = _____

Central angle = _____

Area of a sector = _____