

1/18/19

Name: \_\_\_\_\_

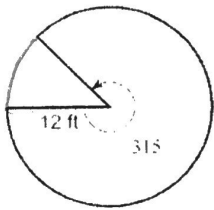
Area of a Circle:  $\pi r^2$

Area of Sector Proportion:

$$\frac{\pi r^2 \theta}{360}$$

Find the area of each sector. Leave your answer in pi form (exact form).

1)



$$AS = \frac{\pi 12^2 \cdot 315}{360}$$

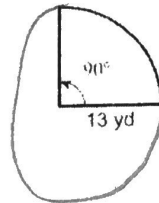
$$= \frac{45360\pi}{360}$$

$$AS = \frac{\pi 12^2 \cdot 45}{360}$$

$$= 18\pi \text{ ft}^2$$

$$= 126\pi \text{ ft}^2$$

2)



$$AS = \frac{\pi \cdot 13^2 \cdot 90}{360}$$

$$= \frac{15210\pi}{360}$$

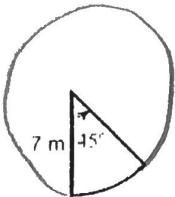
$$AS = \frac{\pi \cdot 13^2 \cdot 270}{360}$$

$$AS = 126.75\pi$$

$$= 42.25\pi \text{ yd}^2$$

Find the area of each sector. Round your answers to the nearest tenth.

3)



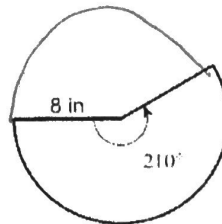
$$AS = \frac{\pi \cdot 7^2 \cdot 45}{360}$$

$$\approx 19.2 \text{ m}^2$$

$$AS = \frac{\pi 7^2 \cdot 315}{360}$$

$$\approx 134.7 \text{ m}^2$$

4)



$$AS = \frac{\pi \cdot 8^2 \cdot 210}{360}$$

$$\approx 117.3 \text{ in}^2$$

$$AS = \frac{\pi \cdot 8^2 \cdot 150}{360}$$

$$\approx 83.8 \text{ in}^2$$