Geometry NOTES January 15, 2020

Circles- Area and Sector Area

Find the area of each.
(a) Leave in terms of pi.
(b) Round to nearest tenth.

$A = \pi r^2$

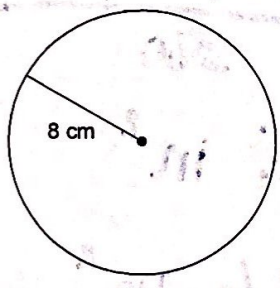
1)

$A = \pi(12)^2$

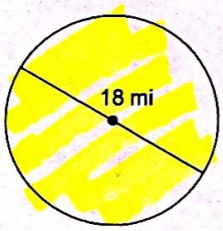
$A = 144\pi \text{ ft}^2$

$A \approx 452.4 \text{ ft}^2$

2)



3)

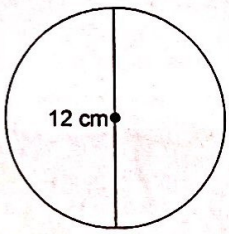


$A = \pi(9)^2$

$A = 81\pi \text{ mi}^2$

$A \approx 254.5 \text{ mi}^2$

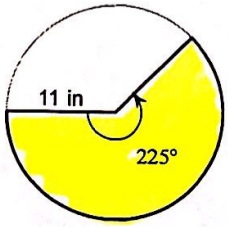
4)



Find the area of each sector.
(a) Leave in terms of pi.
(b) Round to nearest tenth.

$$\text{sector area} = \frac{\pi r^2 \theta}{360}$$

5)



$$A = \frac{\pi (11)^2 (225°)}{360}$$

$$A = \frac{605\pi}{8} \text{ in}^2$$

$$A \approx 237.6 \text{ in}^2$$

6)