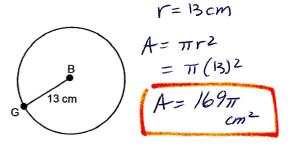
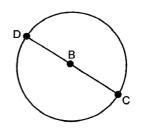


- 1. Find the area of each circle. Give the answer in the form stated for each problem. B is the center of all circles.
- a) Leave answer in terms of  $\pi$ .



b) Give answer to the nearest hundredth.

 $\overline{CD}$  is a diameter and CD = 18 in



Dia = 18 in  

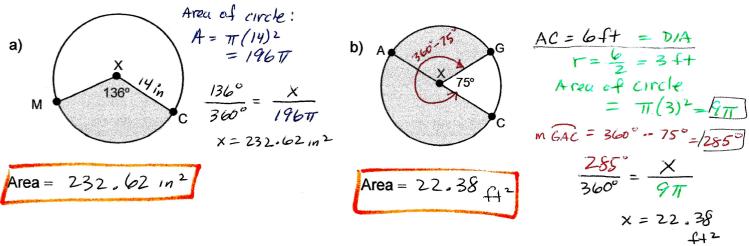
$$r = 18 \div 2 = 9 \text{ in}$$
  
 $A = \pi r^2 = \pi (9)^2$   
 $A = 81\pi$   
 $= 254.47$ 

2. The area of a circle is 325 ft<sup>2</sup>. Find the radius to the nearest hundredth.

$$A = \pi r^{2}$$

$$\frac{325}{\pi} = \frac{\pi r^{2}}{\pi} \rightarrow \sqrt{r^{2}} = \frac{325}{\pi} \rightarrow r = 10.17 \text{ ft}$$

3. Find the area of the shaded sector to the nearest hundredth. The center of each circle is X.  $\overline{AC}$  is a diameter.



4. The area of the shaded sector in circle P is 600cm<sup>2</sup>. Find the measure of the central angle to the nearest hundredth of a degree.

