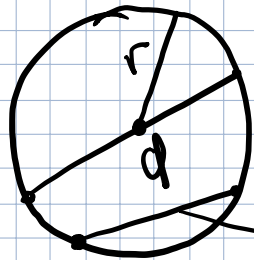
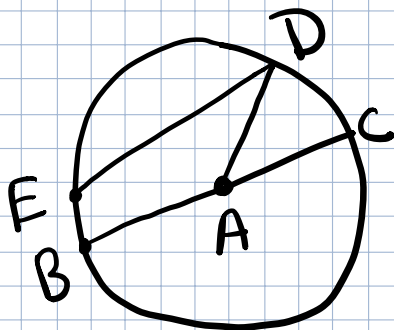


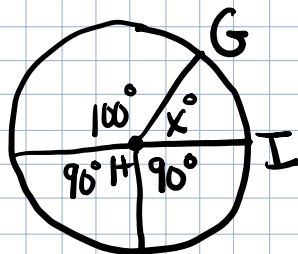
12/5/18 Parts of a circle and Sector Area



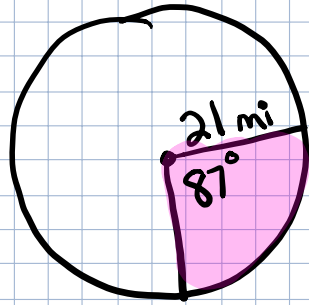
d = diameter
 r = radius
chord



$\odot A$
diameter \overline{BC}
radius \overline{AD}
chord \overline{DE}



central angle
 $m \angle GHI = 80^\circ$
 $x = 80^\circ$



$$A = \pi r^2$$

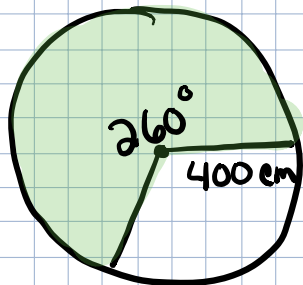
$$A = 3.14(21)^2$$

$$A = 1384.74 \text{ mi}^2$$

$$\frac{\text{central angle}}{360} = \frac{\text{area of sector}}{\text{whole circle area}}$$

~~$$\frac{87}{360} = \frac{x}{1384.74}$$~~

$$x = 334.65 \text{ mi}^2$$



$$A = \pi r^2$$

$$A = 3.14(400)^2$$

$$A = 502,400 \text{ cm}^2$$

$$\frac{260}{360} = \frac{x}{502,400}$$

$$x = 362,844.44 \text{ cm}^2$$