

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

$$(x - h)^2 + (y - k)^2 = r^2$$

$$\frac{\text{Area of sector } APB}{\pi r^2} = \frac{m\widehat{AB}}{360^\circ}$$

$$\frac{\text{arc length of } \widehat{AB}}{2\pi r} = \frac{m\widehat{AB}}{360^\circ}$$

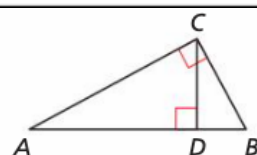
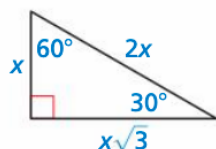
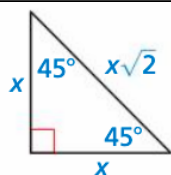
$$C = \pi d \text{ or } C = 2\pi r$$

$$A = \pi r^2$$

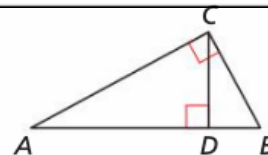
$$V = Bh$$

$$V = \frac{1}{3}Bh$$

$$V = \frac{4}{3}\pi r^3$$

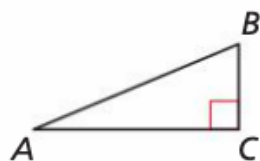


$$CD^2 = AD \cdot BD$$



$$CB^2 = DB \cdot AB$$

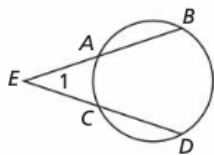
Ratios



$$\sin A = \frac{BC}{AB}$$

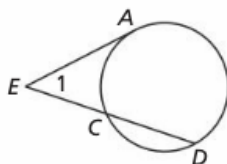
$$\cos A = \frac{AC}{AB}$$

$$\tan A = \frac{BC}{AC}$$



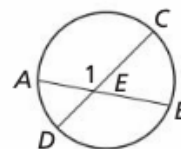
$$m\angle 1 = \frac{1}{2}(m\widehat{BD} - m\widehat{AC})$$

$$EA \cdot EB = EC \cdot ED$$



$$m\angle 1 = \frac{1}{2}(m\widehat{AD} - m\widehat{BC})$$

$$EA^2 = EC \cdot ED$$



$$m\angle 1 = \frac{1}{2}(m\widehat{AC} + m\widehat{DB})$$

$$EA \cdot EB = EC \cdot ED$$