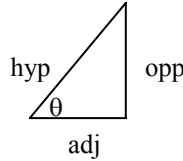


$$\sin\theta = \frac{\text{opp}}{\text{hyp}}$$

$$\cos\theta = \frac{\text{adj}}{\text{hyp}}$$

$$\tan\theta = \frac{\text{opp}}{\text{adj}}$$



$$v = v_o + at$$

$$x = x_o + v_o t + \frac{1}{2} at^2$$

$$x = x_o + \left(\frac{v_o + v}{2} \right) t$$

$$v^2 = v_o^2 + 2a(x - x_o)$$

$$x - x_o = \int_{t_o}^t v dt$$

$$v - v_o = \int_{t_o}^t a dt$$

$$\sum \vec{F} = m\vec{a}$$

$$F_{\text{centripetal}} = \frac{mv^2}{r}$$

$$\vec{F} = \frac{Gm_1m_2\hat{r}}{r^2}$$

$$G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$$

$$\frac{d(x^n)}{dx} = nx^{n-1}$$

$$\int x^n dx = \frac{x^{n+1}}{n+1}$$

circumference of circle = $2\pi r$

area of circle = πr^2

quadratic equation = $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$