

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$A = lw$$

$$M = \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

$$P = 2l + 2w$$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$V = lwh$$

$$y = mx + b$$

$$a^2 + b^2 = c^2$$

$$y - y_1 = m(x - x_1)$$

$$d = rt$$

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

$$A = P \left(1 + \frac{r}{m} \right)^{tm}$$

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

$$I = Prt$$

$$h = \frac{-b}{2a}$$

$$(f \circ g)(x) = f[g(x)]$$

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

$$i = \sqrt{-1}$$

$$x^3 + y^3 = (x + y)(x^2 - xy + y^2)$$

$$i^2 = -1$$

$$x^3 - y^3 = (x - y)(x^2 + xy + y^2)$$

$$\frac{1}{a}(x) + \frac{1}{b}(x) = 1$$

$$\log_b x = y \quad b^y = x$$

$$\frac{1}{a} + \frac{1}{b} = \frac{1}{x}$$

$$\log_b xy = \log_b x + \log_b y$$

$$A = Pe^{rt}$$

$$\log_b \frac{x}{y} = \log_b x - \log_b y$$

Difference Quotient=

$$\log_b x^r = r \log_b x$$

$$\frac{f(x + h) - f(x)}{h}$$

$$\log_b x = \frac{\log x}{\log b} \quad \text{or} \quad \log_b x = \frac{\ln x}{\ln b}$$