































$$f(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$
$$f(x) = \lim_{h \rightarrow 0} (x+h)^2$$
$$= \lim_{h \rightarrow 0} (x^2 + 2xh + h^2)$$

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

$$\frac{y_1 - y_0}{x_1 - x_0} = \frac{g(x+h) - g(x)}{h}$$

$$y = g(x)$$







