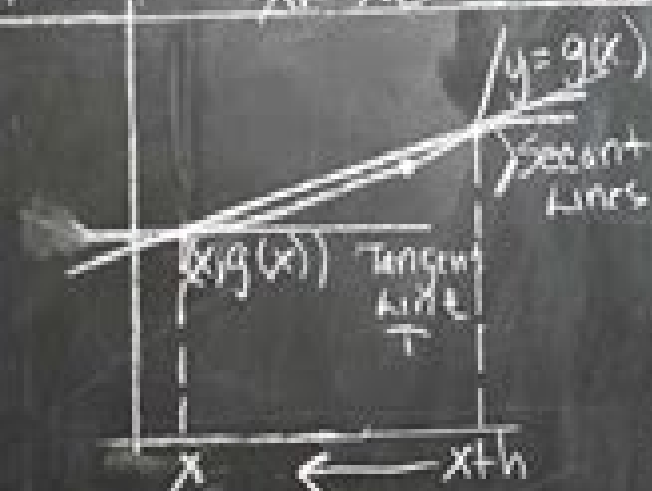




$f(x) = x^2$
Find the derivative

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



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

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

$$\text{Slope}(T) = \lim_{h \rightarrow 0} \frac{g(x+h) - g(x)}{h}$$

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

$$= \lim_{h \rightarrow 0} \frac{\sqrt{x+h} - \sqrt{x}}{h}$$

$$= \lim_{h \rightarrow 0} \frac{x+h-x}{h(\sqrt{x+h}+\sqrt{x})}$$

$$= \lim_{h \rightarrow 0} \frac{h}{h(\sqrt{x+h}+\sqrt{x})}$$

$$= \lim_{h \rightarrow 0} \frac{1}{\sqrt{x+h}+\sqrt{x}}$$

$$= \frac{1}{2\sqrt{x}}$$

$$f'(x) = \lim_{\Delta x \rightarrow 0} \frac{f(x+\Delta x) - f(x)}{\Delta x}$$

$$f'(a) = \lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$$

$$f'(a) = \lim_{h \rightarrow 0} \frac{f(x) - f(a)}{h}$$

Mathematics And Calculus With Applications

Edmond C. Tomastik



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