

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



$$\frac{d}{dx} [f(g(x))] = f'(g(x)) g'(x)$$



$$\frac{d}{dx} x^2 = 2x^{2-1} = 2x' = 2x$$

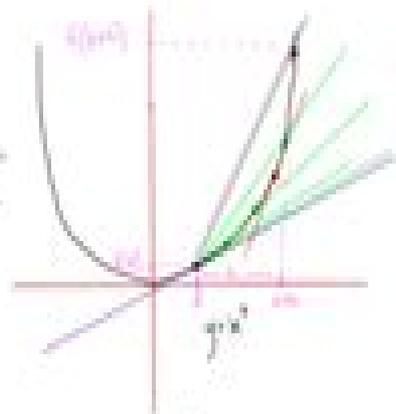
$$\frac{1}{2x} x^2 = 3x^2$$



$$\frac{1}{k} = \frac{1}{\frac{f(x_2) - f(x_1)}{x_2 - x_1}} = \frac{x_2 - x_1}{f(x_2) - f(x_1)}$$

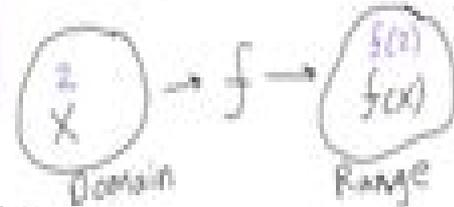
rectangle = $S'(x)$ = width \times height
 width = $S'(x)$ = constant = $\frac{d}{dx}$ of distance
 distance = $S(x)$ = constant \times width = distance

rectangle = $S'(x)$ = area
 width = $S'(x)$ = $\frac{d}{dx}$ = slope
 distance = $S(x)$ = $\frac{d}{dx}$ = slope + time



$$\text{slope} = \frac{f(x_2) - f(x_1)}{x_2 - x_1} = \frac{df}{dx}$$

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



volume = xl = surface
 $l = \frac{d}{dx} \text{ volume}$
 $l = \frac{d}{dx} (xl) = x + l$
 $l = \frac{d}{dx} (xl) = x + l$



$$x \xrightarrow{f} f(x)$$



$$x \xrightarrow{f} f(x)$$



$$\frac{d}{dx} \left[\frac{6x^2}{\cos(x)} \right] = \frac{12x \cdot \cos(x) + 6x^2 \cdot \sin(x)}{\cos^2(x)}$$

$$\frac{1}{2x} \frac{\ln(x)}{\sin(x)} = \frac{(\frac{1}{2x}) \sin(x) - \ln(x) \cos(x)}{\sin^2(x)}$$

$$\frac{d}{dx} \left[\frac{f(x)}{g(x)} \right] = \frac{f'g - fg'}{g^2}$$

Calculus Engineering Projects

Ying Liu



Calculus Engineering Projects:

Calculus Engineering Projects Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Calculus Engineering Projects**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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