





The Derivative is the slope... $f'(x)$ and $\frac{d}{dx}[f(x)]$ and $\frac{dy}{dx}$ and y'

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

Use the limit definition of a derivative to find $f'(x)$ if $f(x) = 3x^2 - 2x + 4$.

Homework: p.261 & 262 3, 4, 13, 17, 23