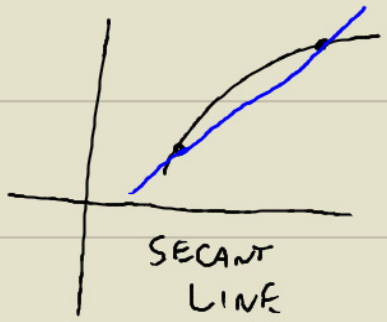

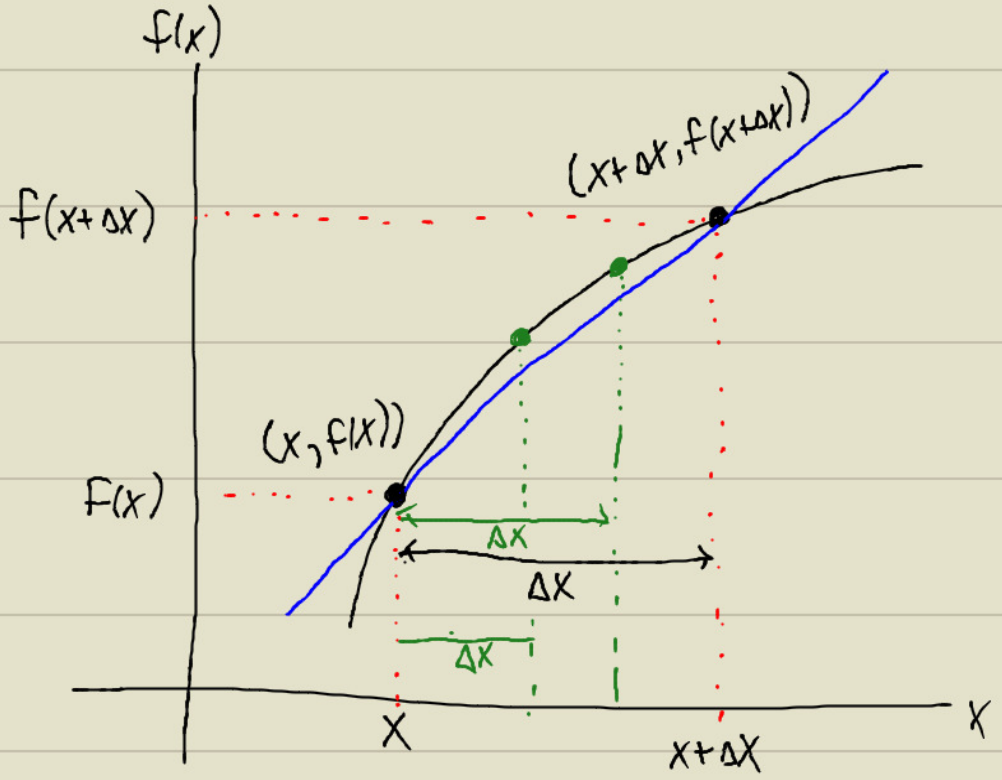

$$m_{SEC} = \frac{\text{CHANGE IN } y}{\text{CHANGE IN } x}$$

$$= \frac{f(x+\Delta x) - f(x)}{x+\Delta x - x}$$

$$= \frac{f(x+\Delta x) - f(x)}{\Delta x}$$

DERIVATIVE

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