



$$\begin{aligned}
 m_{\text{SEC}} &= \frac{\text{CHANGE IN } Y}{\text{CHANGE IN } X} \\
 &= \frac{f(x+\Delta x) - f(x)}{x+\Delta x - x} \\
 &= \frac{f(x+\Delta x) - f(x)}{\Delta x}
 \end{aligned}$$

DERIVATIVE

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