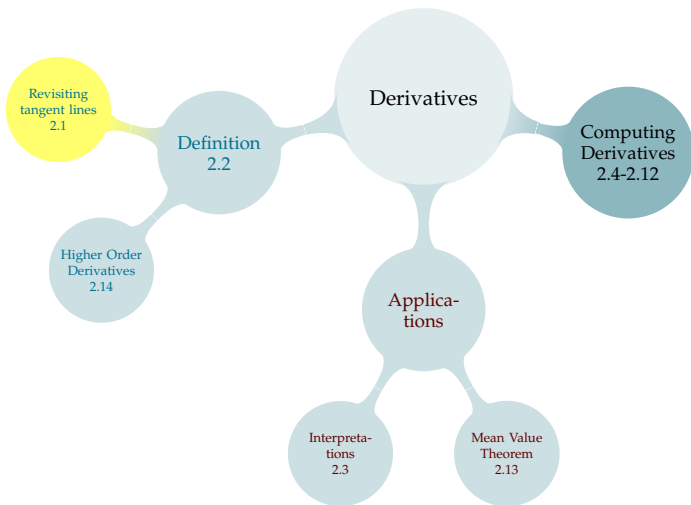


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# SLOPE OF SECANT AND TANGENT LINE

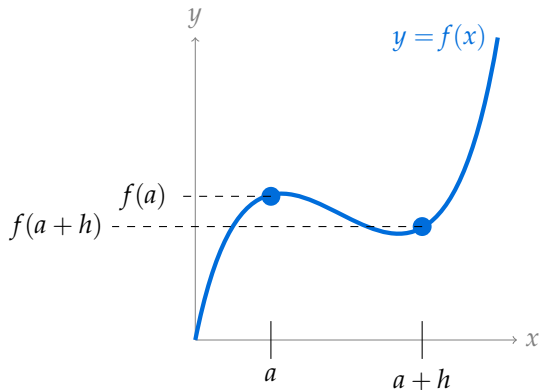
## Slope

Recall, the slope of a line is given by any of the following:

$$\frac{\text{rise}}{\text{run}}$$

$$\frac{\Delta y}{\Delta x}$$

$$\frac{y_2 - y_1}{x_2 - x_1}$$



Slope of secant line:  $\frac{f(a+h)-f(a)}{h}$

Slope of tangent line:  $\lim_{h \rightarrow 0} \frac{f(a+h)-f(a)}{h}$