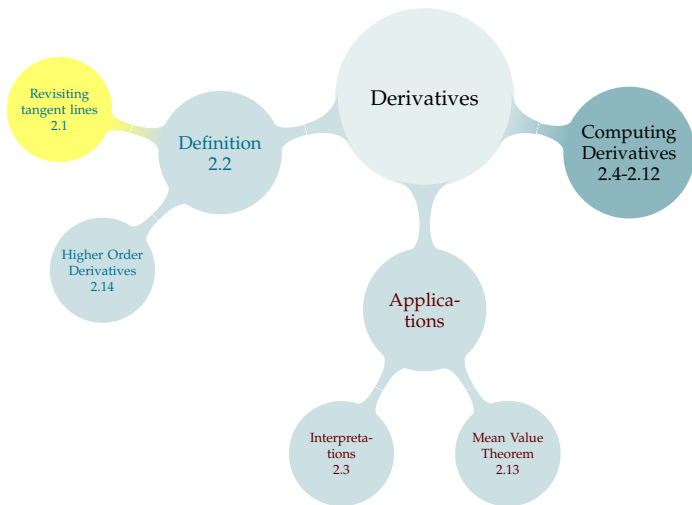


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SLOPE OF SECANT AND TANGENT LINE

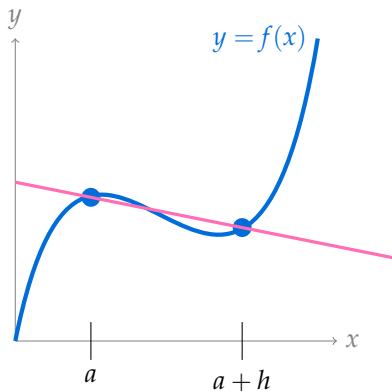
Slope

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

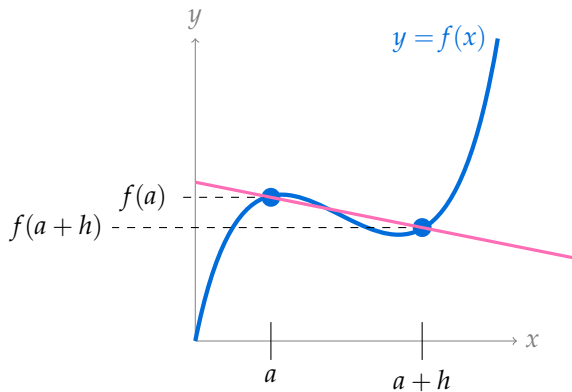
$$\frac{\text{rise}}{\text{run}}$$

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

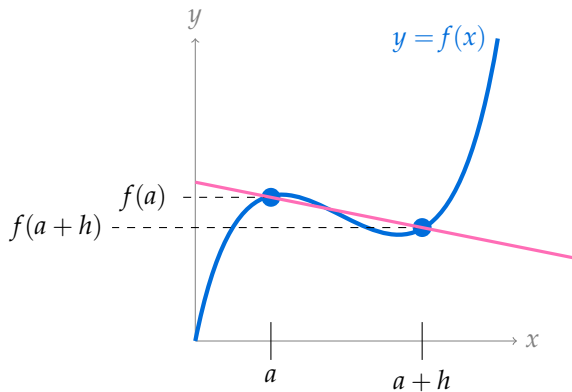
$$\frac{y_2 - y_1}{x_2 - x_1}$$



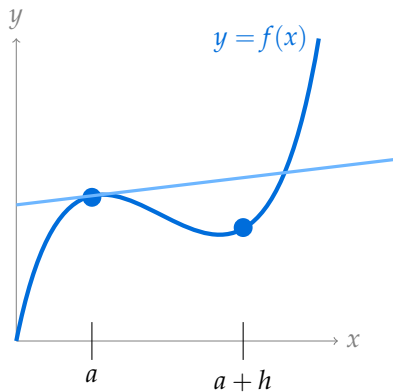
Slope of secant line:



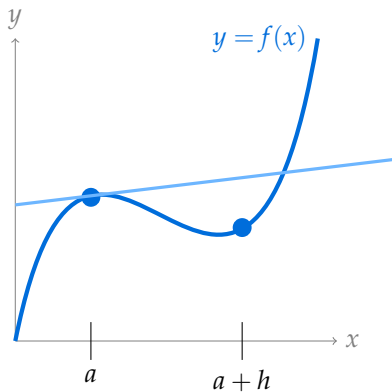
Slope of secant line:



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



Slope of tangent line:



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