Source: [[KBhMATH401SubIndex]]

1 | Derivatives

=> Instantaneous rate of change at a particular point

• Average rate of change = $\frac{\Delta Y}{\Delta X}$

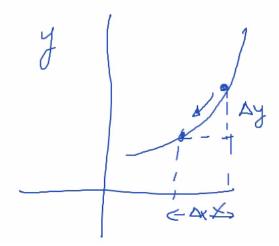


Figure 1: rateofchange.png

• Instantaneous rate of change = $\lim_{\Delta x \to 0} \frac{\Delta Y}{\Delta X}$

Derivative of $f(x) \Rightarrow \frac{dy}{dx}$

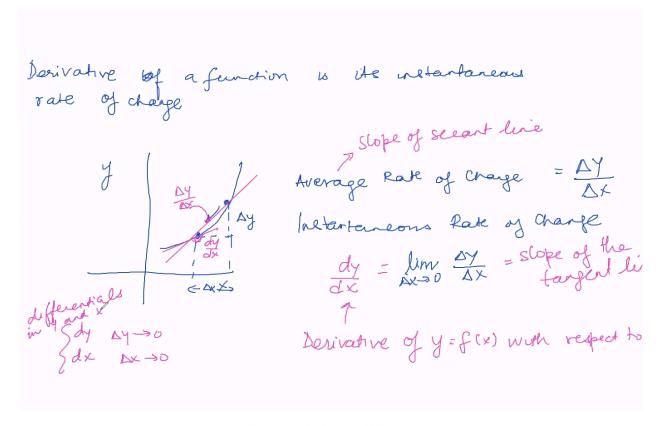


Figure 2: derivativesWB.png

1.1 | Useful Table of Derivatives