

DEFINITION OF AVERAGE RATE OF CHANGE (§2.4)

Graphically: The average rate of change between two points on a graph is the *slope* of the line passing through those two points. This line is called a *secant* line.

Algebraically: Average Rate of Change = $\frac{\text{Total Change in } y}{\text{Total Change in } x}$

♪: The *average rate of change* of a quantity over a period of time is the total amount of change in the quantity divided by the length of time.