Section 3.2 Revisiting Slope

- Vocab of lines & graphs
- Independent & Dependent variables

graph → x y

y depends on x

input output

Domain & Range

List of possible values

input output

$$\text{Slope} = \frac{\text{rise}}{\text{run}} = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{y_1 - y_2}{x_1 - x_2}$$

Slope = rate of change = common difference

Intercept form of a line (slope-Intercept $y = mx + b$)

$$y = a + bx$$

- a: start, y-int, y_0
- b: slope, rate of change, common difference