

Slopes

→ Positve

Positive Slope \Rightarrow Up and Right

Negative Slope \Rightarrow Down and Right

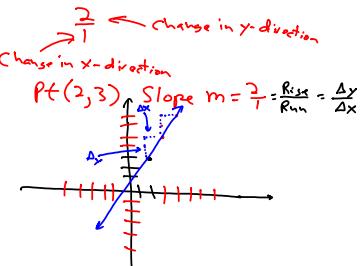
Given two points $m = \frac{y_2 - y_1}{x_2 - x_1}$

Ex: Given pts $(2, 3)$, $(5, 9)$ on a line
what would be the slope?

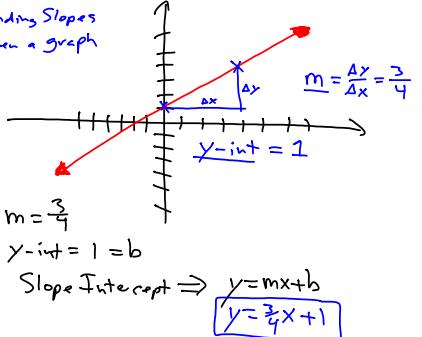
$$m = \frac{y_2 - y_1}{x_2 - x_1} \quad (2, 3) \quad (5, 9)$$

$$m = \frac{9 - 3}{5 - 2} = \frac{6}{3} = 2$$

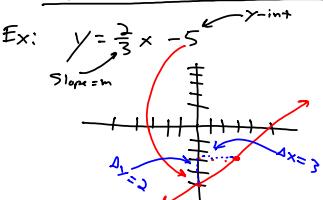
What does $m=2$ mean



Finding Slopes
Given a graph



Graphing lines given in Slope Intercept Form



Convert to $y = mx + b$ (Slope Int Form)

Ex: $3x + 4y = 10$

Solve for y

$$-3x$$

$$\frac{4y}{4} = -3x + 10$$

$$y = -\frac{3}{4}x + \frac{10}{4}$$

$$y = -\frac{3}{4}x + \frac{5}{2}$$

