Thursday, October 18, 2018

B.2 Notes: Slope/Rate of Change

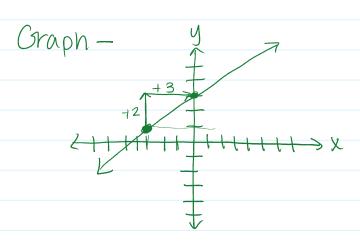
Rate of Change: How one variable changes in relation to another variable. Expressed as a ratio between how the variables are changing.

Ex: 60 miles or 60 mph

5p+s Jack scores 5 I game Points each game.

Slope: Change in variable y over the Change in X. ** slope is a type of rate of change ** m' is used to represent slope

EX:



$$Slope = \frac{rise}{run} = \frac{2}{3}$$

$$y = \frac{1}{2}x + 1$$

1 Slope is 1

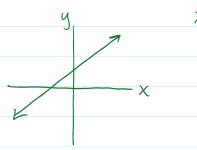
Given Two Points -

$$M = U_{1} - U_{1}$$
 $(-3, 1), (0, 3)$ $(-3, 1), (0, 3)$

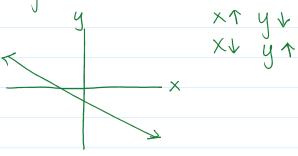
$$M = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - 1}{0 + 1 - 3} = \frac{2}{3}$$

Types of Slope:

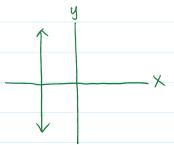
1) Positive



2 Negative

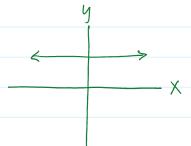


3 No Slope or Undefined



x has no change

4 Zero



y has no change