Today's Plan:

Learning Target (standard): I will describe the slope of a line as a rate of change. I will use this rate of change in applied problems.

Students will: Complete practice problems over previous concepts at the boards and take a quiz.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide quiz problems.

Assessment: Board work, homework check and quiz

Differentiation: Students will work at the board, go over and correct homework at their seats and actively engage in quiz problems.

NAME _____

BELL RINGER

0:00:00

1) Graph 3x+5y = 10 using a t-chart.

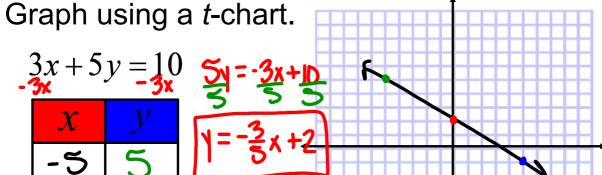
2.) Simplify
$$\frac{1}{2} \cdot \frac{5}{6}$$
. = $\frac{5}{12}$

3.) Is (2, 3) a solution to the equation y = 2x - 1?

$$3=2(2)-1$$

Slope Review

October 16, 2023



$$y=-\frac{3}{5}(-5)+2$$

 $y=-\frac{3}{5}(5)+2$

Find the slope.

$$5)(-12,0)&(-3,16) \qquad M = \frac{12^{-11}}{x_2 - x_1}$$

$$M = \frac{16 - 0}{-3 + 12} = \frac{16}{9}$$

$$m = \frac{16}{9}$$

Find the slope.
$$11)6x + y = 4$$

$$-6x$$

$$y = 6x + 4$$

$$M = -6$$

Find the missing value.

17)
$$(-4, y) & (1,0)$$
 $M = \frac{1}{2} - \frac{1}{3}$

$$-\frac{1}{5} = \frac{0 - 1}{1 + 4} - 1 = 0 - 1$$

$$-\frac{1}{5} - \frac{0 - 1}{1 + 4} - 1 = 0 - 1$$

$$-\frac{1}{5} - \frac{0 - 1}{1 + 4} - 1 = 0 - 1$$

Use the 6-step process to describe the rate of change.

John threw 6 passes for 112 yards in last Friday's football game. He then threw 8 passes for 124 yards in this week's game.

- 1) independent # of passes thrown dependent # of yards
- 2 RoC= <u>Dduperdunt</u> Dinduperdunt

OROC- 1 yards

4) RoC = 124-112 yards 8-6 passes

BROC = 12 yards = 6 yards

(a) John throws for le yards every pass.

Find the slope of the line.

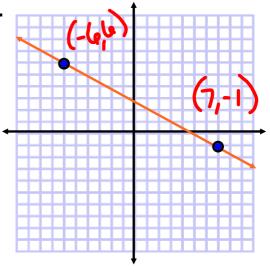
$$M = \frac{1}{2} - \frac{1}{2} = \frac{1}{2}$$

$$=-1-6$$

$$7+6$$

$$m=-1$$

$$13$$



Find the slope of the line.

$$3x + 7y = 21$$

$$-3x$$

$$-3x$$

$$-3x + 21$$

$$1 = -\frac{3}{7}x + 21$$

$$1 = -\frac{3}{7}x + 3$$

$$M = -\frac{3}{7}$$

Each pair of points lies on a line with the given slope. Find the missing value.

$$(4,3),(5,y) \qquad M = \frac{1}{2} - \frac{1}{1}$$

$$m = -\frac{3}{4}$$

$$-\frac{3}{4} = \frac{1}{5} - \frac{3}{4}$$

$$-\frac{3}{4} + \frac{1}{5} - \frac{3}{4}$$

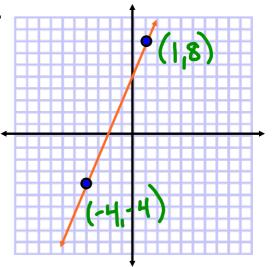
$$-\frac{3}{4} + \frac{1}{1} - \frac{3}{1}$$

$$-\frac{3}{4$$

Find the slope of the line.

$$M = \frac{Y_2 - Y_1}{X_2 - X_1} = \frac{\Delta Y_2}{\Delta X_1}$$

$$=\frac{8+4}{1+4}$$
 $m = \frac{12}{5}$



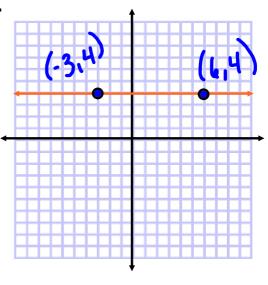
Find the slope of the line.

$$M = \frac{\gamma_2 - \gamma_1}{\chi_2 - \chi_1} = \frac{\Delta_y}{\Delta_x}$$

$$= \frac{4-4}{(0+3)}$$

$$=\frac{0}{9}$$





Find the slope of the line.

$$-2x + 5y = -10$$

$$+2x$$

$$5y = 2x - 10$$

$$y = 2x - 2$$

Each pair of points lies on a line with the given slope. Find the missing value.

$$(4,3),(x,2) \qquad M = \underbrace{4_2 - 4_1}_{X_2 - X_1}$$

$$# = \underbrace{2-3}_{X-4}$$

$$X-4=0$$

$$X=4$$