Welcome to Class!!

You will need:

- ~ Pencil
- ~ Highlighter
 - ~ Ruler
 - ~ Binder
- ~ Vocabulary Sheet

Homework:

ndout 1.2 Linear Functions & Slope Intercept

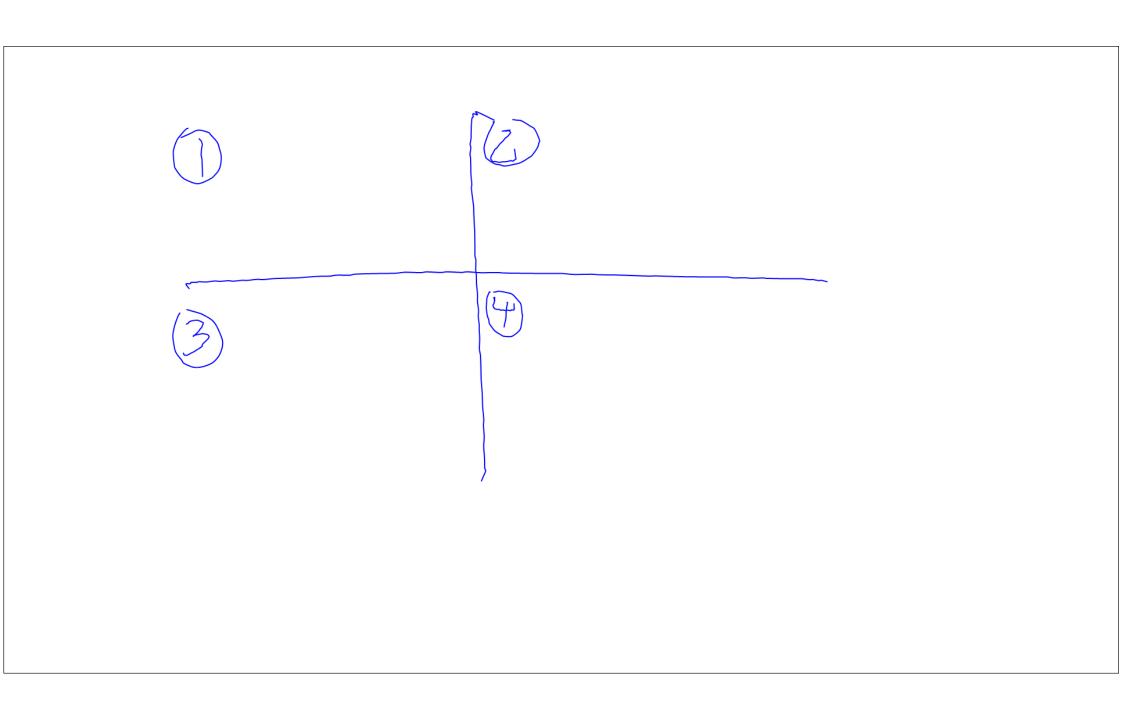
Stick Quiz 8/27/18

Solve the equation for the

1)
$$-12 + 6y = 24$$
, for y $9 = 6$

$$2) \quad ax + bmy = 2T, \text{ for m}$$

m= 2T-ax by



Unit 1.2: Linear Functions and Slope-Intercept Form Vocabulary: **Unit 1 Supplement on Linear Equations:** Definition Word How steep a straight line Slope -5 Steeper A function that makes a straight line when it is Linear graphed. **Function** +(x)=-2xAn equation that makes a straight line when it is Linear graphed. Equation 4=2x Where a line or curve y-intercept crosses the y-axis of a graph. The y value when x equals 0. x-intercept Where a line or curve crosses the x-axis of a graph. The x value when y equals 0. Slope-Intercept y = mx + bForm Slupe

08.27.18 1.2 Linear Functions and Slope Intercept Form.gwb - 5/15 - Tue Aug 14 2018 11:07:36

	ement on Linear Equations: Definition	
Slope	How steep a straight line is.	<i>\</i>
Linear Function	A function that makes a straight line when it is graphed.	
Linear Equation	An equation that makes a straight line when it is graphed.	
y-intercept	Where a line or curve crosses the y-axis of a graph. The y value when x equals 0.	
x-intercept	Where a line or curve crosses the x-axis of a graph. The x value when y equals 0.	
Slope-		
Intercept Form	y = mx + b	
Parallel Lines	Lines on a plane that never meet. They are always the same distance apart. They have the same	
Perpendicular Lines	Lines that are at right angles (90°) to each other. Their slopes are opposite reciprocals.	

Put on same page below today's Stick Quiz

Unit 1.2: Linear Functions and Slope-Intercept Form

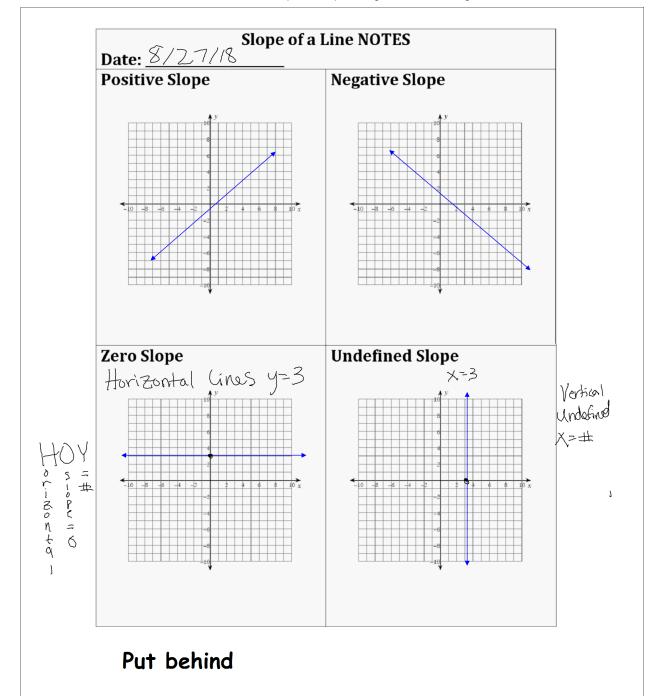
Example - Finding Slope Given two Points:

1)
$$(-3,7)$$
 and $(-2,4)$ 2) $(3,1)$ and $(-2,4)$

2)
$$(3,1)$$
 and $(-2,4)$

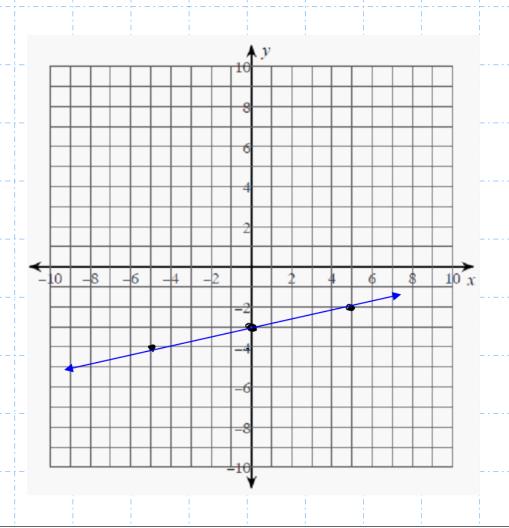
$$M = \frac{y_2}{y_2} = \frac{y_1}{y_2} = \frac{3}{1} = \frac{3}{3}$$

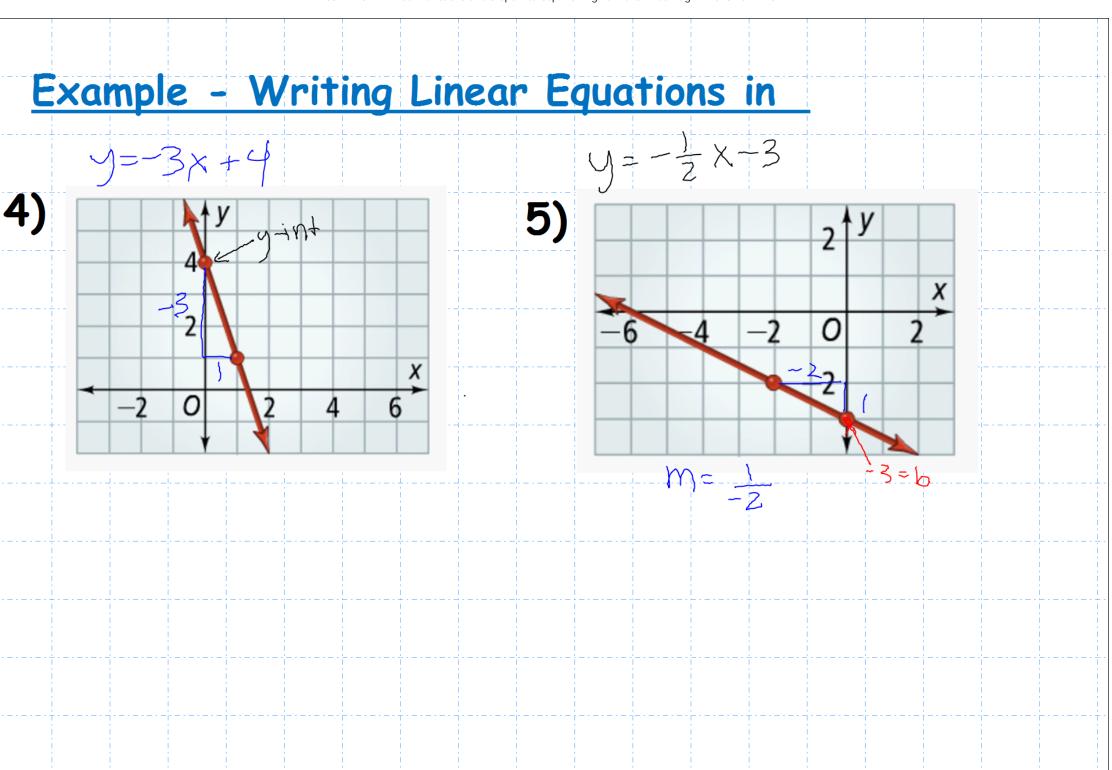
$$M = -\frac{3}{5}$$



Example - Writing Linear Equations in

3)
$$m = \frac{1}{5}$$
 and y-intercept is $(0, -3)$.

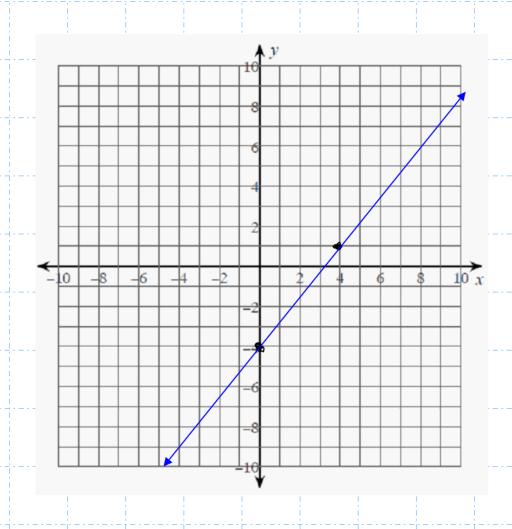


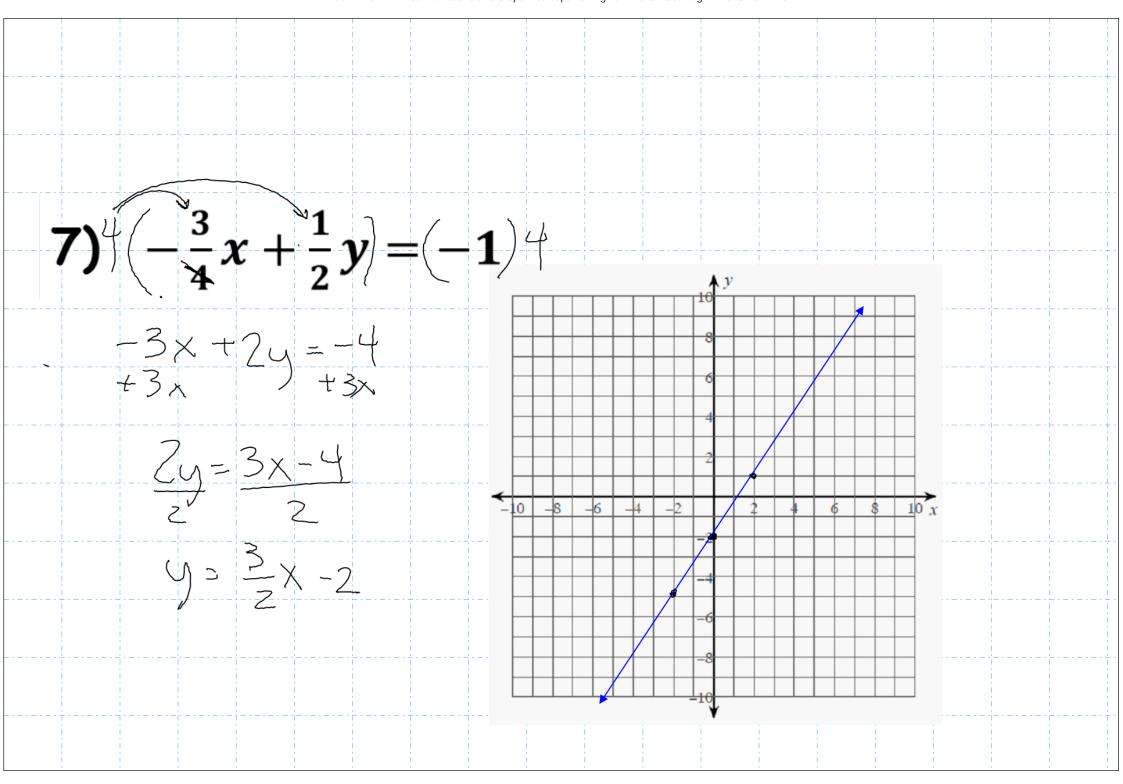


Example - Writing Linear Equations in

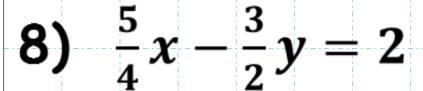
6) 5x - 4y = 16 -4y = -5x -4y = -5x + 16 -4y = -4

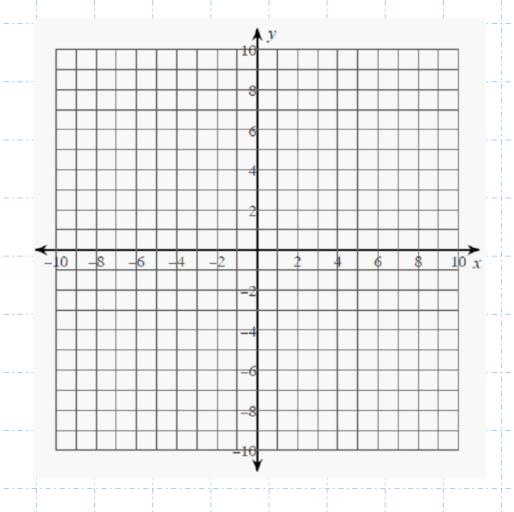
y= 5 4x-4





Example - Writing Linear Equations





Example - Writing Linear

9) Through (2,1) parallel to y=-2x+7

Example - Writing Linear

10) Through
$$(0,6)$$
 perpedicular to $5x - 2y = 8$

$$\frac{-2y - -5x + 8}{-2}$$

$$\frac{-2}{-2} \times -4$$

I can:

a point

Now what?

Work on:

 Handout 1.2 Linear Functions and Slope Intercept

Must be completed by:

Tuesday 8/28

3) Write the equation of a line.

of an equation or graph.

1) Identify the slope and y-intercept

2) Graph a line from slope-intercept

If you finish early:

- Create and graph your own linear equations.
- Create a real life example of a linear function.