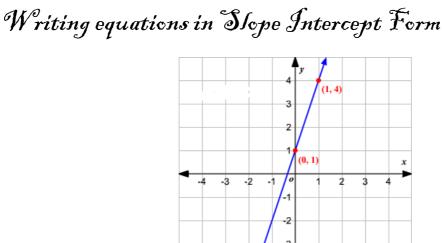
Lesson 4-1

Your Name

Mrs. T

11/3/17

Notes

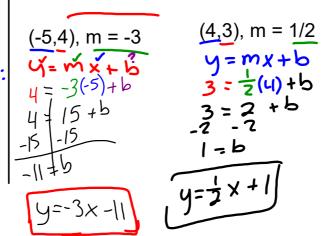


Objective: To be able to write an equation in Slope Intercept form given a point and the slope and any two points.

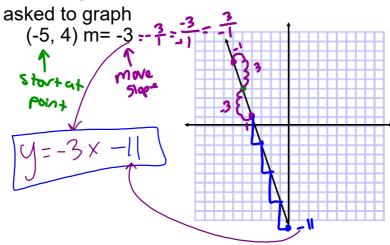
Life Lesson/Math Skill: In life you are not often given exactly what you need, you have to work to find it. To be able to model life situations, you are often given just data or points and expected to write the equation from them.

If you are given a point and slope

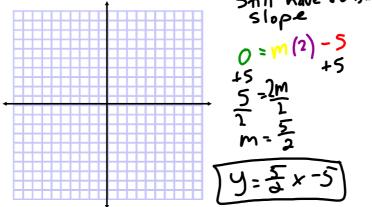
plug the x, y, and m in and solve for b



... when given one point and the slope and



... when given the x and y intercepts



Homework: Writing Equations one point and slope

From the math Textbook:

pg. 179 # 3-12, 27

And Practice tonight's lesson:

Write an equation of a line showing your work, given:

- 1. (1,9), m =4
- 2. (-4,-2), m = -2
- 3. (-3,0), m = 5

Write the equation for the line with the

- 4. x intercept: -3 and y intercept: 6
- 5. x intercept: 2 and y intercept: -4
- 6. x intercept: -4 and y intercept: -8

## **Homework Solutions**

3. 
$$y = 2x + 9$$
 4.  $y = 5$  5.  $y = -3x$ 

$$4. v = 5$$

$$5. v = -3x$$

6. 
$$y = -7x + 1$$

7. 
$$y = 2/3x - 8$$

6. 
$$y = -7x + 1$$
 7.  $y = 2/3x - 8$  8.  $y = -3/4x - 6$ 

9. 
$$y = 1/3x + 2$$
 10.  $y = -1/4x + 3$ 

10. 
$$y = -1/4x + 3$$

11. 
$$y = -4/3x$$

11. 
$$y = -4/3x$$
 12.  $y = 2x - 2$ 

Write an equation of a line showing your work, given:

$$(1,9), m = 4$$

$$y = 4x + 5$$

$$(-4,-2)$$
, m = -2 y = -2x - 10

$$y = -2x - 10$$

$$(-3,0)$$
, m = 5  $y = 5x + 15$ 

$$y = 5x + 15$$