# **Do Now**

# Convert into slope - intercept form

$$2x + 6y = 12$$
 $-2x$ 
 $-2x + 12$ 
 $-2x + 12$ 
 $-2x + 12$ 
 $-2x + 2$ 

Jan 3-7:41 AM

#### **Writing Linear Equations**

### Writing Equations Given a Slope & a y-intercept

- 1) Identify your m
- 2) Identify your b
- 3) Substitute into y = mx + b to write the equation

1) Slope = -2 & y-intercept is 3

$$m = -2$$

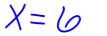
$$y = -2x + 3$$

M=-2 y=mx+bb=3 y=-2x+32) Slope is  $\frac{2}{3}$  & y-intercept is -7 y=mx+bb=-7  $y=\frac{2}{3}x-7$ 

$$m = \frac{2}{3}^{3}$$

$$y = \frac{2}{3}x - 7$$

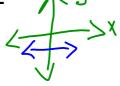
3) There is no slope and the x-intercept is 6 u



Slope = 0 and the y-intercept is -2  $\mathcal{U} = -2$ 

$$m=0$$





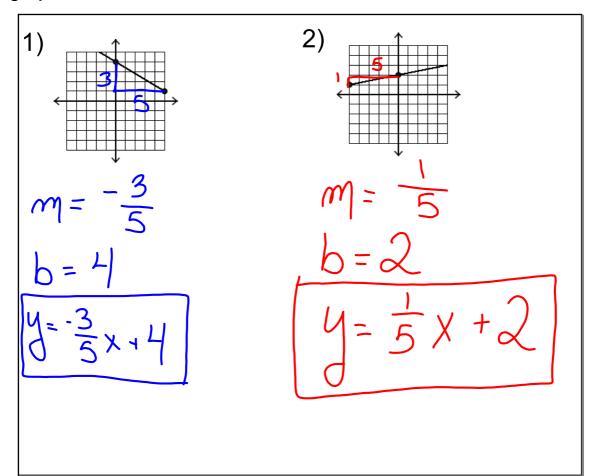
Nov 21-10:41 AM

## **Writing Equations Given a Graph**

- 1) Locate the y-intercept
- 2) Find or Calculate the slope of the line
- 3) Substitute into y = mx + b to write the equation

#### 4.1 Writing equationfromline.notebook

November 06, 2017



Nov 3-11:13 AM

