Bellwork

1. Identify the general equation for each of the given types of linear models:

   Slope-Intercept Form:

   Point-Slope Form:

2. What does each of the variables represent?

Finding a Linear Equation

1. Label the given points as (x_1,y_1) and (x_2,y_2). A. (-3,17) & (1,-3) B. (-1,-30) & (3,50)

2. Find the slope of the line connecting the two points together using the formula:

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

3. Using the m that you just found, write the equation $y = mx + b$ filling in for the m.

4. Choose one of the points you were given and plug it in for the x and y in the problem.
   Given (-3,17) & (1,-3)
   Given (-1,-30) & (3,50)

5. Solve for b.

6. Rewrite $y = mx + b$ now filling in JUST the m and the b values that we have found throughout the process.