Slope-Intercept Form of a Linear Equation	The equation of a line written in the form y = mx + b is said to be in slope-intercept form. To write an
•	equation in slope-intercept form, you need to isolate y by using the properties of equality.

Example #1:

Rewrite the equation 4x - 2y = 12 in slope-intercept form.

4x - 2y = 12	
-4x -4x	1. Subtract 4x from each side to isolate y.
-2y = -4x + 12	2. Simplify.
-2 -2 -2	3. Divide each term by -2 to get y by itself.
y = 2x - 6	4. Simplify.

Rewrite each of the following equations in y = mx + b form. Show each step!

2)
$$x + y = -15$$
 3) $y + 8x = 1$

4)
$$-2x + y = 1$$
 5) $3y - 2x = 9$

6)
$$2y = -1x - 8$$
 7) $y - 4 = -3(x - 3)$

8) 2x + y = 5 9) $\frac{1}{4}y + 3 = -5x$

10)
$$3x + 2y = -6$$
 11) $3y = 2x + 15$

12)
$$y - 4x = 8$$
 13) $y - 8 = -\frac{1}{2}(x + 4)$

14)
$$3x - 4y = 8$$
 15) $6x - 2y = 10$

Name _____

Date _____ Period _____

Rewrite Equations in y = mx + b Form

Rewrite each of the following equations in slope-intercept form, y = mx + b.

1)
$$8x - 4y = 20$$
 2) $2x + 3y = 12$

3)
$$2x + y = -11$$
 4) $8x + 4y = 12$

5)
$$3y = 4x - 27$$
 6) $x - 4y = 8$

7)
$$y + 9 = 2(x + 5)$$

8) $y - 1 = \frac{2}{3}(x + 3)$