Name:	Date:
Day 7: Rearranging into Slope Intercept Form	7/8A

Rearranging into Slope Intercept Form

Aim: How can we rearrange a linear equation in order to find the slope and y-intercept?

Recall: The slope-intercept form of a linear equation is:

❖ Not every linear equation will first appear in slope-intercept form. You must use your algebra skills to get the equation into that form before you can find the slope and y-intercept.

For the following examples, write the equation in slope-intercept form and identify the slope and the y-intercept.

1)
$$y = 14 - 3x$$

2)
$$2y = 6x + 8$$

3)
$$3y = 5x + 9$$

4)
$$3x + 7y = 14$$

Try It: Write the following equations in standard form and then find the slope and y-intercept.

1.
$$2x + y = 6$$

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

On your own!

(#1-3) Write the following linear equations in standard form and then identify the slope and y-intercept.

1.
$$y - 5 = 3x$$

2.
$$2y = 4x + 6$$

3.
$$-6x + 2y = 8$$

4. Which equation represents a line with the same slope as the line y = -2x + 3?

$$4x + 2y = 5$$

$$2x + 4y = 1$$

$$y = 3 - 4x$$

$$y = 4x - 2$$

5. Which equation represents a line with the same y-intercept as y = 4x - 3?

$$y - 3 = x$$

$$y = 8x + 3$$

$$2y = 8x - 3$$

$$5x + 6y = -18$$