Day 4 Rearranging a Line in Standard Form to y=mx+b form

The form of a linear equation that we have focused on so far is the slope y-intercept form:

Another form of a linear equation that is used is called the Standard Form. Standard form of a linear equation is:

$$\rightarrow$$
 Ax + By + C = 0

- A, B, C are integers (no fractions!)
- A & B are not **both** equal to zero
- Right Side of Equation equals Zero!
- The coefficient on the x term is positive.

Example 1: Which equations are in standard form?

a)
$$3x - 4y - 3 = 0$$

b)
$$y = 2x - 3$$

c)
$$2y + 5x - 7 = 0$$

f)
$$y + \frac{7}{2} = 0$$
No.

Example 2: Express each equation in y=mx+b form. State the slope

and y-intercept:

a)
$$4x + 6y + 8 = 0$$

$$4x + 6y + 8 = 0$$

$$4x - 8$$

$$4x - 8$$

$$4x - 8$$

$$4x - 8$$

$$4x - 8 = 0$$

$$-2x - 4x - 3$$

$$-2x - 14 = 0$$

$$-2x - 1$$

$$\frac{-2y-6=0}{-2y-6=0}$$

$$\frac{-2y^{2}-10x+6}{-2x-2}$$

$$y=5x-3$$

$$m=5$$

$$b=-3$$

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