

Rearranging the Equation of a Line

March 4

The Equation of a Line:

$$y = mx + b$$

Sometimes the equation is written in a ^{Solve for * y} different form. We need to rearrange it to get it into the form, **$y = mx + b$** .

Ex. 1. Write in the form, **$y = mx + b$** and then state the slope and the y-intercept.

$$y = mx + b$$

a. $2x + y - 6 = 0$ // +6

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

$$y = 6 - 2x$$

$$y = -2x + 6$$

b. $7x - y - 9 = 0 \quad || +9$

$$7x - y = 9$$

$$-y = 9 - 7x$$

$$\frac{-y}{-1} = \frac{-7x + 9}{-1}$$

$$y = 7x - 9$$

c. $3x + 2y = 8 \quad || -3x$

$$2y = 8 - 3x$$

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

$$y = -\frac{3}{2}x + 4$$

d. $-4x - 2y - 10 = 0 \quad || +10$

$$-4x - 2y = 10 \quad || +4x$$

$$-2y = 10 + 4x$$

$$\frac{-2y}{-2} = \frac{4x + 10}{-2}$$

$$y = -2x - 5$$

Homework:

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Once you are finished your work, come and show me and I will give you the assignment

Due Monday