6.1 Part 1			
Wednesday, May 10, 2023	3:06 PM		

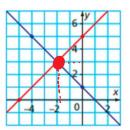
6.1 – Solving Systems of Equations Graphically – Part 1

A linear equation system: two linear equations that have the same two variables.

The solution of a linear equation system: The point of intersection, or ordered pair, of the two linear equations represents the solution. (X,Y)

Example 1: Determine the solution to the linear system.

$$(-2,3)$$



Example 2: Solve each linear system graphically. y = mx + b

a)
$$y = -\frac{2}{3}x + 1$$
 and $y = x - 4$

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$$y = x - 4$$

$$M = -\frac{2}{3}$$
 $M = 1 = \frac{1}{3}$

$$b = 1$$

 $slope = -\frac{2}{3}$ $slope = +\frac{1}{1}$

$$2x + y = 1$$

$$V = m \times + b$$

$$\frac{2y = -3x - 12}{2} + \frac{2x + y = 1}{2x}$$

$$-2x + y = 1 + 2x$$

$$\frac{2y}{2} = \frac{-3x}{2} - \frac{12}{2}$$

$$y = \frac{-3x}{2} + \frac{12}{2}$$

$$y = 2x + 1$$

$$y = \frac{-3}{2}x - \frac{13}{2}$$

$$m = 2 = \frac{2}{2} + \frac{1}{2}$$

$$y = \frac{2x}{2} + \frac{1}{2}$$

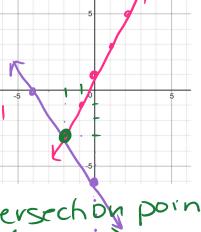
$$m = 2 = \frac{2}{2} + \frac{1}{2}$$

$$m = 2 = \frac{2}{2$$







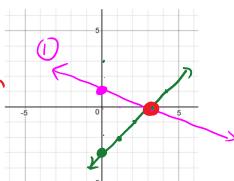


Mrs. Shawint = b = - b

intersection point (-2,-3) F&PC 10

c)
$$-2x-6y=-6$$
 and $x-y=3$

Rewrite as y=mx+b slope intercept form



Practice: Exercise 6.1

Mrs. Shaw