

Today's Plan:

Learning Target (standard): I will solve literal equations for a specific variable. I will use my knowledge of literal equations to put linear equations in slope-intercept form.


Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide quiz problems.

Assessment: Board work, homework check and quiz

Differentiation: Students will work at the board, go over and correct homework at their seats, and complete a quiz on literal equations.

NAME _____



$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

BELL RINGER

1.) Find the slope $(2, 3)$ and $(4, 7)$.

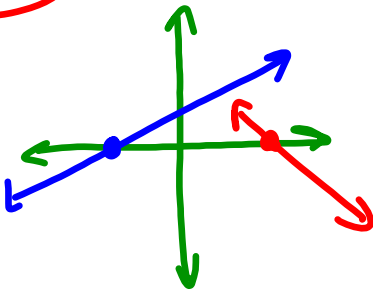
$m = \frac{7-3}{4-2} = \frac{4}{2} = 2$
 $m=2$

2.) Find the x-intercept $2x + 3y = -12$.

$I_x: (-6, 0)$
 $2x + 3(0) = -12$
 $2x = -12$
 $x = -6$

3.) Solve $6x - 2 = 8x - 12$.

$-8x - 2 = -12$
 $-2x - 2 = -12$
 $-2x = -10$
 $x = 5$



Solve for a.

$$k) \left[u = \frac{ab}{k} \right]$$

$$\frac{ku}{b} = \frac{ab}{b}$$

$$\frac{ku}{b} = a$$

$$a = \frac{ku}{b}$$

Solve for a.

$$a) \left[\frac{m}{a} = np \right]$$

$$\frac{m}{np} = \frac{anp}{np}$$

$$\frac{m}{np} = a$$

$$a = \frac{m}{np}$$

Solve for y .

$$2x + 4y = 4$$

$-2x$ $-2x$

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

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

Solve for x .

$$x \left[\frac{y}{x} = (a + b) \right]$$
$$\cancel{y = ax + bx}$$

$$\frac{y}{a+b} = \frac{x(a+b)}{a+b}$$

$$\frac{y}{a+b} = x$$

$$x = \frac{y}{a+b}$$

Solve for x .

$$a - 2b + c = 4x + 3a - 4c$$

$$a - 2b + 5c = 4x + 3a$$

$$-2a - 2b + 5c = 4x$$

$$-\frac{a}{2} - \frac{b}{2} + \frac{5c}{4} = x$$

$$x = -\frac{a}{2} - \frac{b}{2} + \frac{5c}{4}$$

$$x = -\frac{1}{2}a - \frac{1}{2}b + \frac{5}{4}c$$

Solve for y .

$$2 \left[-3x - \frac{3}{2}y = 24 \right]$$

$$-6x - 3y = 48$$

$$-3y = 6x + 48$$

$$y = -2x - 16$$