

# 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



#28

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

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

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

$$2x + 3 \cdot 0 = -12 \quad \text{I}_{x, (-4, 0)}$$

$$\frac{2x}{2} = \frac{-12}{2} \quad x = -6$$

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

$$\begin{array}{r} +2 \quad +2 \\ 6x - 2 = 8x - 12 \\ \hline 6x = 8x - 10 \quad -2x = -10 \quad x = 5 \\ \hline -6x \quad -6x \end{array}$$

Solve for a.

$$k3) \left[ u = \frac{ab}{k} \right]$$

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

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

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

Solve for a.

$$08) \left[ \frac{m}{a} = np \right]$$

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

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

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

$$a = \frac{n}{m} - \frac{p}{m}$$

~~$$a = \frac{n-p}{m}$$~~

Solve for  $y$ .

$$2x + 4y = 4$$

$-2x$                        $-2x$

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

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

Solve for  $x$ .

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

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

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

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

Solve for x.

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

$+4c$                        $+4c$

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

$-3a$                        $-3a$

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

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

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

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