Recall: A literal equation is an equation that contains 2 or more variables.

ex1) Solve for b.
$$2a - 3b = 6c$$

1 -2a -2a Isolate b on one side ot equation.

$$\frac{-3b}{-3} = \frac{6c - \lambda a}{-3}$$

$$b = -\lambda c + \frac{\lambda a}{3}$$

SOLUTION FOR Y

We will be solving all of the literal equations in this section for y. We will also be writing our answers in a very specific way. The reasons behind this will become clear in the next few lessons.

ex2) Solve for y.

4x + 3y = 15

When x is in the numerator, move it to the side instead.

 $\frac{-4x}{3} = \frac{-4}{3}x$

$$\frac{3y}{3} = -\frac{4x}{3} + \frac{15}{3}$$

$$y = -\frac{4}{3}\chi + 5$$

For these equations, write the x-term FIRST Instead of writing 15-4x, write -4x+15. Be sure to keep the signs in the correct places. The reason for this will become clear in a future lesson.

SOLUTION FOR Y

ex3) Solve for y.
$$|x - 2y = 6|$$

$$\frac{-2y}{-2} = \frac{-1x+6}{-2}$$

$$y = \frac{1}{\lambda}x - 3$$

Solve for y. 3x = 4y + 12ex4)

$$\frac{3x}{4} - \frac{12}{4} = \frac{4y}{4}$$

$$\frac{3}{4}x - 3 = y \longrightarrow y = \frac{3}{4}x - 3$$

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

SOLUGIORY

ex5) Solve for y.

$$\frac{y^{.6}}{2} - \frac{x^{.6}}{3} = \frac{2^{.6}}{3}$$

Clear fractions!

$$3y - 2x = 4$$

$$+2x + 2x$$

$$3y = 2x + 4$$

$$3y = 2x + 4$$

$$3y = 3x + 4$$

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