Lesson 2.7

Solving Formulas and Literal Equations

A <u>literal equation</u> is an equation where most coefficients have been replaced by variables.

When you solve one, the result will look like a new equation.

So no, you will not get a simple, numerical solution with these.

Examples

1. Solve $\sqrt{-2y} = 1$, for y

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

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

3. Solve gh - 5k = 10j, for g

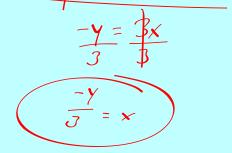
$$\frac{3h}{h} = \frac{10j + 5k}{h}$$

$$\frac{3}{h} = \frac{10j + 5k}{h}$$

2. Solve 2m + n = 12, for m = 12 - n



4. Solve 9x - y = 12x, for x



5. Solve
$$\frac{8cd - m}{10} = -2$$
, for c

$$\frac{8cd - m}{10} = -20$$

$$\frac{8cd - m}{10} = -20$$

$$\frac{8cd}{10} = -20 + m$$

$$\frac{8c$$