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Thursday, October 18, 2012  
11:13 AMLiteral Equations

↳ "letters"

Inverse Operations (Opposites)

add + , subtract -

mult \* , div. ÷

fraction , reciprocal (flip)

EXS: ①  $ax + b = c$  Solve for  $x$ .  
 $\quad \quad \quad \underline{-b \quad -b} \quad \quad \quad \hookrightarrow \text{get } x \text{ by itself.}$

$$\frac{ax}{a} = \frac{c-b}{a}$$

$$x = \frac{c-b}{a}$$

②  $ax + b = c$  Solve for  $b$ .  
 $\quad \quad \quad \underline{-ax \quad -ax} \quad \quad \quad \hookrightarrow \text{get } b \text{ by itself.}$

$$b = c - ax$$

③  $3y - x = m$  Solve for  $y$ .  
 $\quad \quad \quad \underline{+x \quad +x}$

$$\frac{3y}{3} = \frac{m+x}{3}$$

$$y = \frac{m+x}{3}$$

$$y = \frac{m+x}{3}$$

④  $\frac{d}{v} = \frac{m}{\cancel{v}}$  Solve for m.

$$\frac{d}{v} = m$$

$$m = \frac{d}{v}$$

⑤  $c^2 e = \frac{m}{\cancel{c^2}} \frac{\cancel{c^2}}{1}$  Solve for m.

$$c^2 e = m$$

$$m = c^2 e$$