explain-math example

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## 0.1 Basic Math Example

Initial 
$$eq. \rightarrow \left\{-2(x+2) = 6\right\}$$
Foil out  $-2 \rightarrow \left\{(-2 \cdot x) + (-2 \cdot 2) = 6\right\}$ 
Remove  $-4$  from the left  $\rightarrow \left\{-2x - 4 + 4 = 6 + 4\right\}$ 
Remove  $-2$  from the left  $\rightarrow \left\{\frac{-2x}{-2} = \frac{10}{-2}\right\}$ 
 $x = -5$ 

$$Sol.$$

$$x = -5$$

## 0.2 Basic Physics Example

$$\begin{array}{l} \text{Initial } \textit{eq.} \rightarrow \Big\{p = mv \\ \\ \text{Variables} \rightarrow \left\{ \begin{aligned} p &= ? \text{ kg} \cdot \frac{\text{m}}{\text{s}} \\ m &= 3.0 \text{ k.g} \\ v &= 5.0 \text{ m/s East} \end{aligned} \right. \\ \text{Plug \& solve} \rightarrow \Big\{p = 3 \cdot 5 \end{array}$$

Sol. 
$$p = 15 \text{ kg} \cdot \frac{\text{m}}{\text{s}}$$