explain-math example

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0.1 Basic Math Example

Initial eq.
$$\ \ \, \hookrightarrow \ \ \left\{ \begin{array}{l} -2(x+2)=6 \\ \\ -2x-4=6 \\ \\ -2x-4+4=6+4 \end{array} \right.$$
 Remove -4 from the left $\ \ \, \hookrightarrow \ \ \left\{ \begin{array}{l} (-2\cdot x)+(-2\cdot 2)=6 \\ \\ -2x-4+4=6+4 \\ \\ -2x=10 \\ \\ -2 \end{array} \right.$ Remove -2 from the left $\ \ \, \hookrightarrow \ \ \left\{ \begin{array}{l} -2x \\ -2x=10 \\ \\ x=-5 \end{array} \right.$

$$\mathfrak{sol}. \setminus x = -5$$

0.2 Basic Physics Example

Initial eq.
$$\uparrow \longleftrightarrow \begin{cases} p = mv \end{cases}$$
 Variables $\uparrow \longleftrightarrow \begin{cases} p = ? \text{ kg } \frac{m}{s} \\ m = 3.0 \text{ k.g} \\ v = 5.0 \text{ m/s East} \end{cases}$ Plug & solve $\uparrow \longleftrightarrow \begin{cases} p = 3 \cdot 5 \end{cases}$

$$\mathfrak{sol}$$
. \searrow
$$p = 15 \text{ kg} \cdot \frac{\text{m}}{\text{s}}$$