

## Solving Linear Equations (Solve for x)

① combining like terms

$$(A) -7x + 3x = 5$$

$$\frac{-4x}{-4} = \frac{5}{-4}$$

$$x = \frac{5}{-4}$$

$$\begin{array}{r} -7x + 5 = 3x \\ +7x \qquad +7x \end{array}$$

$$(B) 12 = \underline{9y} - 10 - \underline{1y}$$

$$\begin{array}{r} 12 = 8y - 10 \\ +10 \qquad +10 \end{array}$$

$$\frac{22}{8} = \frac{8y}{8}$$

$$y = \frac{22}{8}$$

$$\begin{array}{r} 12 = 9y - 10 - 1y \\ +10 \qquad +10 \end{array}$$

$$\frac{22}{8} = 9y - 1y$$

$$(C) \begin{array}{r} 5x - 9 - 10x - 4 = 10 \\ +9 \qquad +4 \end{array}$$

$$5x - 10x = 23$$

$$\frac{-5x}{-5} = \frac{23}{-5}$$

$$x = \frac{23}{-5}$$

$$\underline{5x} - 9 - \underline{10x} - 4 = 10$$

$$\begin{array}{r} -5x - 13 = 10 \\ +13 \qquad +13 \\ \hline -5x = 23 \end{array}$$

