

① combining like terms

Solving Linear Equations (Solve for x)

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

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

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

$$\left. \begin{array}{r} -7x + 5 = 3x \\ +7x \end{array} \right\} +7x$$

(B)

$$12 = \underline{\underline{9y}} - 10 - \underline{\underline{ly}}$$

$$12 = \underline{\underline{8y}} - 10$$

$$\underline{\underline{+10}} \quad \underline{\underline{+10}}$$

$$\underline{\underline{\frac{22}{8}}} = \underline{\underline{\frac{8y}{8}}} \quad \boxed{y = \frac{22}{8}}$$

$$\left. \begin{array}{r} 12 = 9y - 10 - ly \\ +10 \end{array} \right\} +10$$

$$\underline{\underline{22 = 9y - ly}}$$

(C) $5x - \cancel{9} - 10x - \cancel{4} = 10$

$$5x - 10x = 23$$

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

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

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

$$\underline{\underline{-5x - 13 = 10}} \quad \underline{\underline{+13 \quad +13}}$$
$$-5x = 23$$

NOTES

(D)

$$-3(4x+2) = 8$$

$$\begin{array}{r} -12x \quad -6 \\ \hline -12x = 14 \end{array}$$

$$+6 \qquad \qquad \qquad x = \frac{14}{-12}$$

(E)

$$5(4-2n) - 3 = 14$$

$$\begin{array}{r} 20 - 10n - 3 \\ \hline -10n = 17 \end{array}$$

$$\begin{array}{r} -10n = 17 \\ \hline -10n = -17 \end{array}$$

$$\begin{array}{r} -10n = -17 \\ \hline n = \frac{17}{-10} \end{array}$$