

$$1. \quad 5x - (3 - 2x) = 4$$

$$5x - 3 + 2x = 4$$

$$7x - 3 = 4 \quad | + 3$$

$$7x = 7 \quad | : 7$$

$$\underline{x = 1}$$

$$\underline{\underline{L = \{1\}}}$$

$$2. \quad 7 - (6x + 1) = -8$$

$$7 - 6x - 1 = -8$$

$$6 - 6x = -8 \quad | + 6x$$

$$6 = 6x - 8 \quad | + 8$$

$$14 = 6x \quad | : 6$$

$$\frac{14}{6} = x$$

$$\underline{x = \frac{7}{3}}$$

$$\underline{\underline{L = \left\{ \frac{7}{3} \right\}}}$$

$$3. \quad 12x + (-9x - 15) = 7x$$

$$12x - 9x - 15 = 7x$$

$$3x - 15 = 7x \quad | - 3x$$

$$-15 = 4x \quad | : 4$$

$$-\frac{15}{4} = x$$

$$\underline{\underline{L = \left\{ -\frac{15}{4} \right\}}}$$

$$\begin{aligned}
 \underline{4.} \quad 20 + (13 - 11x) &= -2x \\
 20 + 13 - 11x &= -2x \\
 33 - 11x &= -2x && | +11x \\
 33 &= 9x && | :9 \\
 \frac{33}{9} &= x \\
 x &= \frac{11}{3} \\
 \underline{\underline{L = \left\{ \frac{11}{3} \right\}}}
 \end{aligned}$$

$$\begin{aligned}
 \underline{5.} \quad x - (2 + 3x) &= -4 + (5x - 6) \\
 x - 2 - 3x &= -4 + 5x - 6 \\
 -2 - 2x &= -10 + 5x && | +2x \\
 -2 &= -10 + 7x && | +10 \\
 8 &= 7x && | :7 \\
 \frac{8}{7} &= x \\
 \underline{\underline{L = \left\{ \frac{8}{7} \right\}}}
 \end{aligned}$$

$$\begin{aligned}
 \underline{6.} \quad \frac{x}{2} + (2x - 3) &= 4 \\
 \frac{x}{2} + 2x - 3 &= 4 && | \cdot 2 \\
 x + 4x - 6 &= 8 \\
 5x - 6 &= 8 && | +6 \\
 5x &= 14 && | :5 \\
 x &= \frac{14}{5} \\
 \underline{\underline{L = \left\{ \frac{14}{5} \right\}}}
 \end{aligned}$$

7.

$$3x - \left(4 - \frac{x}{3}\right) = -5$$

$$3x - 4 + \frac{x}{3} = -5 \quad | \cdot 3$$

$$9x - 12 + x = -15$$

$$10x - 12 = -15 \quad | +12$$

$$10x = -3 \quad | :10$$

$$x = -\frac{3}{10}$$

$$\underline{\underline{L = \left\{-\frac{3}{10}\right\}}}$$

8.

$$\frac{5}{6} - \left(x - \frac{5}{9}\right) = 2x$$

$$\frac{5}{6} - x + \frac{5}{9} = 2x \quad | \cdot 18$$

$$15 - 18x + 10 = 36x$$

$$25 - 18x = 36x \quad | +18x$$

$$25 = 54x \quad | :54$$

$$\underline{\underline{\frac{25}{54} = x}}$$

$$\underline{\underline{L = \left\{\frac{25}{54}\right\}}}$$