

# M8 - 10.8 - " $ax + b = cx + d$ " HW

Solve for  $x$

$$\begin{array}{r} 2x = 4 + x \\ -x \quad -x \end{array}$$

$$x = 4$$

$$\begin{array}{l} 2x = 4 + x \\ 2(4) = 4 + 4 \\ 8 = 8 \end{array}$$

$$2x = 3 + x$$

$$2x = 5 + x$$

$$4x = 16 + 3x$$

$$4x = 12 + 2x$$

$$6x = 5x - 9$$

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

$$6x + 2 = 5x - 6$$

$$2x + 1 + 3x = 2 + 4x$$

$$\begin{array}{l} -3x = 18 - 4x \\ 8x = -12 + 4x \end{array}$$

$$\begin{array}{l} -33 + 3x = 14x \\ 10 + 4x = 9x \\ 6 + 5x = 3x \end{array}$$

$$\begin{array}{l} 5x - 3 = 3x - 1 \\ 6x + 4 = 2x + 12 \end{array}$$

$$\begin{array}{l} 7x + 5 = 2x + 5 \\ 3x - 4 = 2x - 9 \end{array}$$

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Solve for  $x$

$$\begin{array}{r} 2x + 3 = 4 + x \\ -x \quad -x \\ \hline x + 3 = 4 \\ -3 \quad -3 \\ \hline \end{array}$$

$$x = 1$$

$$\begin{array}{l} 2x + 3 = 4 + x \\ 2(1) + 3 = 4 + (1) \\ 5 = 5 \quad \checkmark \end{array}$$

$$5x - 9 = -4x + 18$$

$$-2x - 1 = 4x + 2$$

$$5x - 4 = 4 - 3x$$

$$\begin{array}{r} 2x + 4 + x = 13 \\ 3x + 4 = 13 \\ -4 \quad -4 \\ \hline 3x = 9 \\ \frac{3x}{3} = \frac{9}{3} \end{array}$$

$$x = 3$$

$$\begin{array}{l} 2x + 4 + x = 13 \\ 2(3) + 4 + (3) = 13 \\ 13 = 13 \quad \checkmark \end{array}$$

$$4x - 5 + x = 7 - x$$

$$\begin{array}{l} 4x + 3 = 3x + 12 \\ 3x + 2 = 2x + 3 \end{array}$$

$$\begin{array}{l} 3x + 2 = 6 + x \\ 2x - 8 = 4 - 4x \\ 2x - 3 = 8x - 12 \end{array}$$

$$\begin{array}{l} -3x = 2 + 11x - 6 \\ 5x + 2x + 6 + 1 = 0 \\ 4x - 5 + x = 7 - x \end{array}$$

$$\begin{array}{l} x - 5x + 3 = -9 \\ 5 - 2x + 3 = 2x \end{array}$$