

Review: Solve the following

$$\begin{array}{r} 3x - 8 = 16 \\ + 8 \quad + 8 \\ \hline 3x = 24 \\ \frac{3x}{3} = \frac{24}{3} \\ x = 8 \end{array}$$

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Solving equations with variables on both sides

$$\begin{array}{r} 10x + 6 = 12x - 18 \\ -12x \quad -12x \\ \hline -2x + 6 = -18 \\ -6 \quad -6 \\ \hline -2x = -24 \\ \frac{-2x}{-2} = \frac{-24}{-2} \\ x = 12 \end{array}$$

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$$8x + 4 = 6x + 10$$

$$\begin{array}{r} -6x \\ \hline \end{array}$$

$$2x + 4 = 10$$

$$\begin{array}{r} -4 \\ \hline \end{array}$$

$$\frac{2x}{2} = \frac{6}{2}$$

$$x = 3$$

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$$3(2x + 4) = 4(x + 7)$$

$$6x + 12 = 4x + 28$$

$$\begin{array}{r} -4x \\ \hline \end{array}$$

$$2x + 12 = 28$$

$$\begin{array}{r} -12 \\ \hline \end{array}$$

$$x = 8$$

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$$2(5x + 3) = 3(2x + 2)$$

$$10x + 3 = 6x + 6$$

$$\begin{array}{r} 10x + 3 = 6x + 6 \\ -6x \quad \quad -6x \\ \hline \end{array}$$

$$4x + 3 = 6$$

$$\begin{array}{r} 4x + 3 = 6 \\ -3 \quad \quad -3 \\ \hline \end{array}$$

$$4x = 3$$

$$\frac{4x}{4} = \frac{12}{4}$$

$$x = 3$$

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$$4(x + 5) + 4x = 2(3x + 4)$$

$$4x + 20 + 4x = 6x + 8$$

$$8x + 20 = 6x + 8$$

$$\begin{array}{r} 8x + 20 = 6x + 8 \\ -6x \quad \quad -6x \\ \hline \end{array}$$

$$2x + 20 = 8$$

$$\begin{array}{r} 2x + 20 = 8 \\ -20 \quad \quad -20 \\ \hline \end{array}$$

$$2x = -12$$

$$\frac{2x}{2} = \frac{-12}{2}$$

$$x = -6$$

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