

①

$$\begin{aligned} -8(x - 6) &= 32 \\ -8x + 48 &= 32 \\ -48 \quad -48 & \\ \hline -8x &= -16 \\ -8 \quad -8 & \\ \hline x &= 2 \end{aligned}$$

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②

$$\begin{aligned} -12(k + 4) &= 60 \\ -12k - 48 &= 60 \\ +48 \quad +48 & \\ \hline -12k &= 108 \\ -12 \quad -12 & \\ \hline k &= -9 \end{aligned}$$

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③

$$8(3a + 6) = 9(2a - 4)$$

$$24a + 48 = 18a - 36$$

$$\begin{array}{r} -18a \quad | \quad -18a \\ \hline \end{array}$$

$$6a + 48 = -36$$

$$\begin{array}{r} -48 \quad -48 \\ \hline \end{array}$$

$$\frac{6a}{6} = -\frac{84}{6}$$

$$a = -14$$

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⑤

$$4(5 + 2x) - 5 = 3(3x + 7)$$

$$20 + 8x - 5 = 9x + 21$$

$$15 + 8x = 9x + 21$$

$$\begin{array}{r} -8x \quad -8x \\ \hline \end{array}$$

$$15 = 1x + 21$$

$$\begin{array}{r} -21 \quad -21 \\ \hline \end{array}$$

$$-6 = 1x$$

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⑥

$$6(2x - 8) + 3 = 15$$

$$12x - 48 + 3 = 15$$

$$12x - 45 = 15$$

$$+45 \quad +45$$

$$12x = 60$$

$$\frac{12}{12} \quad \frac{60}{12}$$

$$x = 5$$

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④

$$8(t + 2) - 3(t - 4) = 6(t - 7) + 8$$

$$8x + 16 - 3x + 12 = 6x - 42 + 8$$

$$5x + 28 = 6x - 34$$

$$+34 \quad +34$$

$$5x + 62 = 6x$$

$$-5x \quad -5x$$

$$62 = x$$

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

$$\boxed{-8x} \boxed{-8} \boxed{+3x} \boxed{-6} = -3x - 6$$

$$\begin{array}{r} -5x - 14 = -3x - 6 \\ +3x \qquad \qquad +3x \end{array}$$

$$\begin{array}{r} -2x - 14 = -6 \\ +14 \quad +14 \end{array}$$

$$\begin{array}{r} -2x = 8 \\ \underline{-2} \quad \underline{-2} \end{array}$$

$$\boxed{x = -4}$$

Oct 30-9:44 AM