

September 26, 2016

$$4 \left(-9 + \frac{a}{4} = -7 \right)$$

$$-36 + 4a = -28$$

$$\begin{array}{r} -36 \\ +36 \end{array} \qquad \begin{array}{r} -28 \\ +36 \end{array}$$

$$\frac{4a}{4} = \frac{8}{4}$$

$$a = 2$$

$$\frac{4}{1} \cdot \frac{a}{4} = \frac{4a}{4} = a$$

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$$35 \left(\frac{1}{7}x + \frac{1}{5} = \frac{1}{5}x - \frac{1}{7} \right)$$

$$\frac{5}{35}x + \frac{7}{35} = \frac{7}{35}x - \frac{5}{35}$$

$$-\frac{5}{35}x + \frac{5}{35} \qquad -\frac{7}{35}x + \frac{5}{35}$$

$$K \frac{12}{35} = \frac{2}{35}x$$

$$C \frac{2}{35} \qquad \frac{2}{35}$$

$$F \frac{2}{35} \qquad \frac{2}{35}$$

$$\frac{6}{35} \cdot \frac{5}{5} = \frac{30}{175}$$

$$\frac{2}{35} \cdot \frac{5}{5} = \frac{10}{175}$$

$$\frac{30}{175} - \frac{10}{175} = \frac{20}{175}$$

$$\frac{20}{175} = \frac{4}{35}$$

$$4 = x$$

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Special Types

① No Solution

$$3x - 7 = 3(x + 1)$$

$$3x - 7 = 3x + 3$$

$$\begin{array}{r} 3x - 7 \\ -3x + 7 \\ \hline 0 \neq 10 \end{array}$$

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② All Real Numbers (\mathbb{R})

$$5x - 5 = 2(x + 1) + 3x - 7$$

$$5x - 5 = 2x + 2 + 3x - 7$$

Combining Like Terms

$$5x - 5 = 5x - 5$$

$$\begin{array}{r} 5x - 5 \\ -5x + 5 \\ \hline 0 = 0 \text{ true!} \end{array}$$

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What is a Like Term?

- Same Variable
- Same Exponent

$$5x^1 - 9x^1 = x(5 - 9)$$

$$= x(-4)$$

$$= -4x$$

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#1) $\square - \circ = \$$, for \square

$$\begin{array}{r} + \circ \qquad + \circ \\ \square = \$ + \circ \end{array}$$

A.A.

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$$\frac{34}{3} - 4 = \frac{8}{3}$$

$$\begin{array}{r} \bigcirc \bigcirc - \triangle = - \text{☺} \\ + \triangle \quad + \triangle \end{array}$$

$$\frac{\bigcirc \bigcirc}{\bigcirc} = - \frac{\text{☺} + \triangle}{\bigcirc}$$

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