September 26, 2016

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

$-36 + 4a = -28$

$+36 \qquad +36$

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

$a = 2$

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

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

$5x + 7 = 7x - 5$

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

$-\frac{5}{35}x + \frac{5}{35} \quad -\frac{5}{35}x + \frac{5}{35}$

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

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

$\frac{6}{12} \cdot \frac{35}{2} = x$

$6 = x$

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Special Types

① No Solution

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

$3x - 7 = 3x + 3$

$-3x + 7 \qquad -3x + 7$

$0 = 10$ false!

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② All Real Numbers ($\mathbb{R}$)

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

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

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What is Like Terms?

- Same Variable
- Same Exponent

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

$= x(-4)$

$= -4x$

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$\square - 0 = \$$, for $\square$

$+0 \qquad +0$ A.D.

$\square = \$ + 0$

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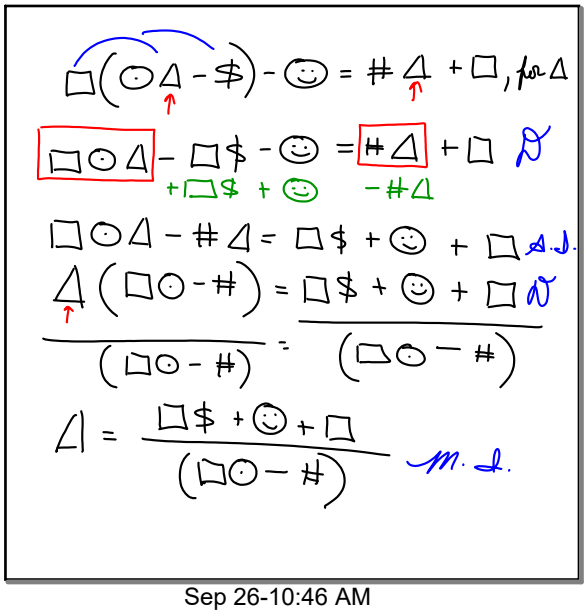

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