February 12, 2016

$-0.0001 = -\frac{1}{10,000}$

$\frac{8}{0}$ = undefined

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#3)

$$\frac{\frac{11}{4} - \frac{5}{2}}{\frac{8}{7} + \frac{1}{6}} \div \frac{\frac{11-10}{4}}{\frac{48+7}{42}}$$

$$= \frac{\frac{1}{4}}{\frac{55}{42}} \quad \begin{matrix} \text{K} \\ \text{C} \\ \text{F} \end{matrix}$$

$$= \frac{1}{4} \cdot \frac{42}{55} \quad \begin{matrix} 2 \\ 21 \end{matrix}$$

$$= \frac{21}{110}$$

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$-x^4; \quad x = -\frac{9}{7}$

$$-\left(-\frac{9}{7}\right)^4 = \left[(-1)\cdot\left(-\frac{9}{7}\right)\left(-\frac{9}{7}\right)\left(-\frac{9}{7}\right)\left(-\frac{9}{7}\right)\right]$$

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

$$= \left(-\frac{81}{49}\right)\left(-\frac{9}{7}\right)$$

$$= \left(\frac{729}{343}\right)\left(-\frac{9}{7}\right)$$

$$= -\frac{6561}{2401}$$

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2.1 Solving Linear Equations

Equivalent Equations

① $a + c \overset{?}{=} b + c$

$x \boxed{+2} = 6 \boxed{+2}$

$x + 2 = 8$ A. I.

② $a - c = b - c$

$a + (-c) = b + (-c)$

$x - 2 = 6 - 2$

$x - 2 = 4$ A. I.

③ $ac = bc$

$x(2) = 6(2)$

$2x = 12$ M. I.

④ $\frac{a}{c} = \frac{b}{c}$

$\frac{1}{c} \cdot a = b \cdot \frac{1}{c}$

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

$\frac{2}{1} \cdot \frac{x}{2} = 3 \cdot \frac{2}{1}$ M. I.

$x = 6$

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Do 2.1

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