

November 17, 2017

#10) $\frac{15a-3}{24} \neq \frac{15a-1}{8}$
 $\neq \frac{5a-3}{8}$
 $\frac{3(5a-1)}{24}$
 $\frac{5a-1}{8}$

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$$\frac{6x + \cancel{3}}{\cancel{3}} \neq \frac{6x}{\cancel{3}}$$

$$\frac{\cancel{3}(2x+1)}{\cancel{3}} = 2x+1$$

or $\frac{6x}{3} + \frac{3}{3} = 2x+1$

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#12) $\frac{x+6}{x^2+5x-6}$

Simplifying Steps
 ① Factor both numerator & denominator as needed.
 ② Divide out the "ones".

$$\frac{(x+6) \cdot 1}{(x+6)(x-1)}$$

"1"

$$1 \cdot \frac{1}{x-1} = \frac{1}{x-1}$$

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#16) $\frac{x^2-11x+18}{x^2+2x-8}$

$$\frac{(x-9)(x-2)}{(x+4)(x-2)} = \frac{x-9}{x+4}$$

"1"

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$$\frac{45}{10a-10} = \frac{45}{10(a-1)}$$

$$= \frac{3 \cdot 9}{5 \cdot 2(a-1)}$$

$$= \frac{9}{2(a-1)} \text{ or } \frac{9}{2a-2}$$

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① Do 7.3
 ② 7.4 Solving Rational Equations

$15x \left(\frac{1}{x} - \frac{1}{3} = \frac{1}{5} \right)$ LCD: 15x

$$\left[\frac{15}{15x} \cdot \frac{1}{x} \right] \left[\frac{15x}{15x} \cdot \frac{1}{3} \right] = \left[\frac{15x}{15x} \cdot \frac{1}{5} \right]$$

$$15 - 5x = 3x$$

$$15 = 8x$$

$$\frac{15}{8} = x$$

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