June 9, 2015

Prep Handout

#25

LCD: 4

$4\left(\frac{x}{4} - \frac{1}{2} = \frac{x+6}{2}\right)$

$x - 2 = 2x + 12$

$-x \quad -12 \quad -x \quad -12$

$-14 = x$

Ch

$\frac{-14}{4} - \frac{1}{2} = \frac{-14+6}{2}$

$-\frac{7}{2} - \frac{1}{2} = \frac{-8}{2}$

$\frac{-7-1}{2} = -4$

$-\frac{8}{2}$

$-4 = -4$ ✓

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#26)

$\frac{\frac{1}{1} + \frac{3}{7}}{\frac{2}{1} + \frac{4}{7}} = \frac{\frac{7+3}{7}}{\frac{14+4}{7}}$

$= \frac{\frac{10}{7}}{\frac{18}{7}}$ K C F

$= \frac{10}{7} \cdot \frac{7}{18} = \frac{10}{18} = \frac{5}{9}$

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June #2

#1) LCD: 5

$5\left(\frac{6(y-2)}{5} = -y + \frac{6}{5}\right)$

$6(y-2) = -5y + 6$

$6y - 12 = -5y + 6$

$11y = 18$

$y = \frac{18}{11}$

$\frac{6\left(\frac{18}{11} - \frac{2}{1}\right)}{5} = -\left(\frac{18}{11}\right) + \frac{6}{5}$

$\frac{6\left(\frac{18-22}{11}\right)}{\frac{5}{1}} = \frac{-90+66}{55}$

$\frac{\frac{6}{1}\left(-\frac{4}{11}\right)}{\frac{5}{1}} = -\frac{24}{55}$

$-\frac{\frac{24}{11}}{\frac{5}{1}}$ K C

$-\frac{24}{11} \cdot \frac{1}{5}$

$-\frac{24}{55} = -\frac{24}{55}$ ✓

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#2) $x^2 - 7x - 18 = 0$

$(x-9)(x+2) = 0$

① $x - 9 = 0$

$x = 9$

② $x + 2 = 0$

$x = -2$

Ch

$(9)^2 - 7(9) - 18 = 0$

$81 - 63 - 18 = 0$

$18 - 18 = 0$ ✓

$(-2)^2 - 7(-2) - 18 = 0$

$4 + 14 - 18 = 0$

$18 - 18 = 0$ ✓

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#13)

K C F

$\frac{3x+6}{12} \cdot \frac{5x+10}{4}$

$\frac{3(x+2)}{12} \cdot \frac{1}{5(x+2)}$

$\frac{3}{3} \cdot \frac{1}{5}$

$1 \cdot \frac{1}{5} = \frac{1}{5}$

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Let $x = 6^{1/2}$

$(x)^2 = \left(6^{1/2}\right)^2$

$\sqrt[2]{x^2} = \sqrt[2]{6}$

$x = \sqrt{6}$

$x = x$ true

$6^{1/2} = \sqrt[2]{6}$

$\sqrt[5]{10} = 10^{\left(\frac{1}{5}\right)}$

$\approx$

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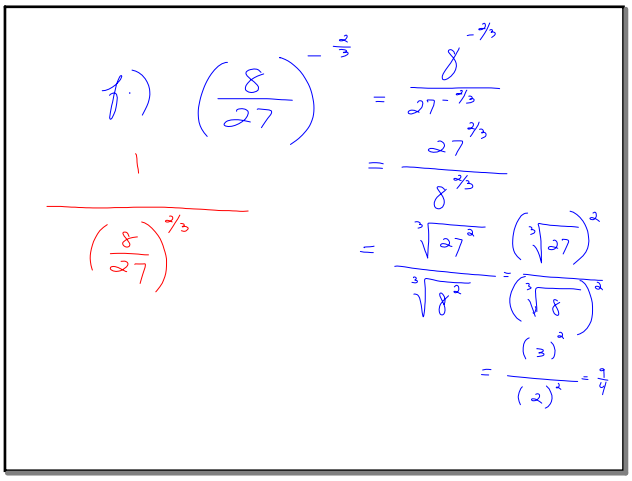

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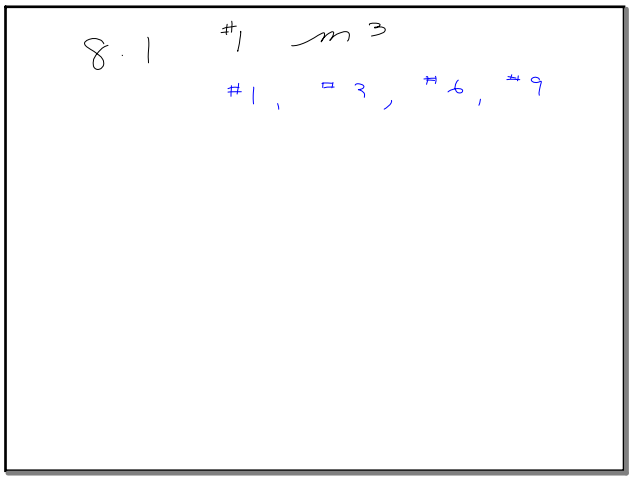

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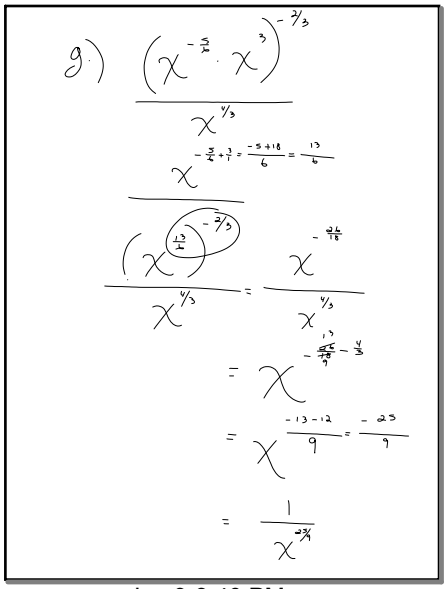

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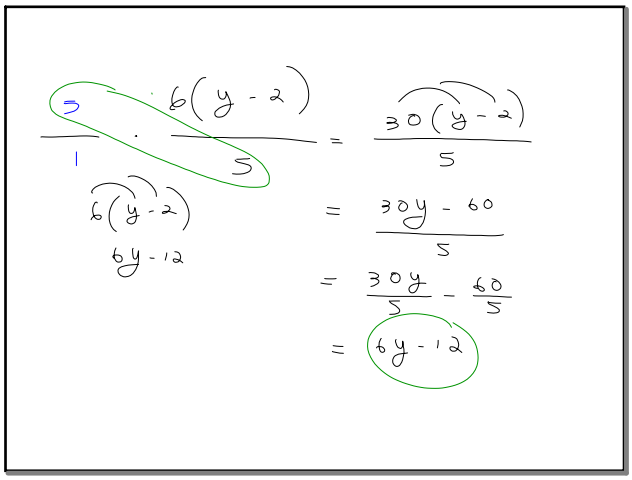

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