

August 21, 2015

$$\frac{12}{12} = 100$$

$$\frac{8}{12} = 67$$

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Quinn #1

LCM: $3 \cdot 11 = 33$

$$\frac{11}{3} - \frac{5}{11} = \frac{121}{33} - \frac{15}{33} = \frac{106}{33}$$

$$\frac{11}{3} \cdot \frac{11}{11} = \frac{121}{33}$$

$$\frac{5}{11} \cdot \frac{3}{3} = \frac{15}{33}$$

$$\frac{11(11) - 5(3)}{33}$$

$\frac{a}{b} \pm \frac{c}{d} = \frac{a(d) \pm c(b)}{b \cdot d}$

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#2)

$$\frac{3 + \frac{1}{4}}{\frac{2}{7} - 5} = \frac{\frac{12+1}{4}}{\frac{2-35}{7}}$$

$$= \frac{\frac{13}{4} \cdot \frac{7}{7}}{-\frac{33}{7}}$$

$$= \frac{13}{4} \cdot -\frac{7}{33}$$

$$= -\frac{91}{132}$$

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#3)

$$-3(4t - 5) + 2t = t + 2(t - 1) - 8$$

$$-12t + 15 + 2t = t + 2t - 2 - 8$$

$$-10t + 15 = 3t - 10$$

$$-13t = -25$$

$$t = \frac{25}{13}$$

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Prep

$x^2 = x \cdot x$

#7)

$$\frac{(x^2)^4}{(3x)^3} = \frac{(x^2)(x^2)(x^2)(x^2)}{(3x)(3x)(3x)}$$

$$= \frac{x^8}{27x^3}$$

$$\frac{x^8}{27x^3} = \frac{x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x}{27 \cdot x \cdot x \cdot x} = \frac{x^5}{27}$$

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#18)

$t^3 + 64$ Sum of Two Cubes

$a = t$
 $b = 4$

$$a^3 + b^3 = (a+b)(a^2 - ab + b^2)$$

$$(t+4)(t^2 - 4t + 16)$$

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