

February 15, 2016
 * Exam #1 - February 26
 Everything
 * Quiz #5 - Wednesday
 Equations

Feb 15-9:51 AM

#39) $x - \frac{9}{8} = \frac{1}{2}$
 $+ \frac{9}{8} \quad + \frac{9}{8}$
 $x = \frac{1}{2} + \frac{9}{8}$
 $= \frac{4+9}{8}$
 $x = \frac{13}{8}$
 $\frac{13}{8} - \frac{9}{8} = \frac{1}{2}$
 $\frac{13-9}{8} = \frac{1}{2}$
 $\frac{4}{8} = \frac{1}{2}$
 $\frac{1}{2} = \frac{1}{2}$

Feb 15-10:06 AM

#46) $\frac{-6.4x}{-6.4} = \frac{39.68}{-6.4}$
 $x = -6.2$
 $(-6.4)(-6.2) = 39.68$

Feb 15-10:10 AM

① $-3(x-5) + 2(5+x) + 3 = -7(x-2)$
 ② $-3x + 15 + 10 + 2x + 3 = -7x + 14$ Dist.
 ③ $-x + 28 = -7x + 14$ Assoc./Comm.
 ④ $6x = -14$ A. ↓
 ⑤ $x = -\frac{7}{3}$ M. ↓

Feb 15-10:11 AM

CR = $x = -\frac{7}{3}$
 $-3(-\frac{7}{3} - \frac{5}{1}) + 2(5 + (-\frac{7}{3})) + 3 = -7(-\frac{7}{3} - 2)$
 $-3(\frac{-7-15}{3}) + 2(\frac{15-7}{3}) + 3 = -7(\frac{-7-4}{3})$
 $-3(\frac{-22}{3}) + 2(\frac{8}{3}) + 3 = -7(\frac{-11}{3})$
 $\frac{22}{1} + \frac{16}{3} + 3 = \frac{91}{3}$
 $\frac{66}{3} + \frac{16}{3} + 3 = \frac{91}{3}$
 $\frac{82}{3} + \frac{9}{3} = \frac{91}{3}$
 $\frac{91}{3} = \frac{91}{3}$ ✓

Feb 15-10:25 AM

Complete 2.1 & 2.2
 2.3 Solving Equations that Contain Fractions
 LCD: $\frac{8}{1}(x - \frac{9}{8}) = \frac{1}{2}$ LCD: 8
 $8x + \frac{8}{1} \cdot \frac{-9}{8} = \frac{8}{1} \cdot \frac{1}{2}$ Dist LCD
 $8x - 9 = 4$
 $+9 \quad +9$
 $\frac{8x}{8} = \frac{13}{8}$ A. ↓
 $x = \frac{13}{8}$ M. ↓

Feb 15-10:37 AM

$$40 \left(\frac{3}{5}x - \frac{2}{1} = \frac{7}{8} \right) \quad \text{LCD: } 40$$

$$40 \left(\frac{3}{5}x \right) + 40(-2) = 40 \left(\frac{7}{8} \right)$$

$$24x - 80 = 35$$

$$\frac{24x}{24} = \frac{115}{24}$$

$$x = \frac{115}{24}$$

Feb 15-10:44 AM