

February 24, 2015

$$x = 0.\overline{882}$$

$$\begin{array}{r} 1000x = 882.\overline{882} \\ \underline{-x = 0.\overline{882}} \\ 999x = 882 \end{array}$$

$$x = \frac{882}{999} = \frac{\cancel{9} \cdot 98}{\cancel{9} \cdot 111}$$

$$= \frac{98}{111}$$

Feb 24-9:06 AM

#4)

$$\begin{array}{ll} (12-3) - 12 \cdot 5 & ? \quad -(100 \div 5)^2 - 72 \div (-6)^2 \\ (12-27) - 12 \cdot 5 & - (100 \div 25)^2 - 72 \div (-6)^2 \\ (-15) - 12 \cdot 5 & - (4)^2 - 72 \div (-6)^2 \\ (-15) - 60 & - 16 - 72 \div 36 \\ (-15) + (-60) & - 16 - 2 \\ -75 & - 16 + (-2) \\ & - 18 \end{array}$$

Feb 24-9:13 AM

#3) $\textcircled{3} (-4x + 5) - 2x = 8$

a.) $\boxed{-12x} + 15 \boxed{-2x} = 8$
Dist.

b.) $-14x + 15 = 8$
Comm & Assoc.

c.) $-14x = -7$
Adding Inverse

d.) $x = \frac{1}{2}$
Multiplicative Inverse

Feb 24-9:20 AM

$$\frac{1}{-14} \cdot \frac{-14}{1} x = \frac{-7}{1} \cdot \frac{1}{-14}$$

$$1 \cdot x = \frac{-7}{-14}$$

$$\boxed{x = \frac{1}{2}} \quad 1 \cdot \frac{2}{2}$$

Feb 24-9:26 AM

#7)

$$x < y \quad \text{Round}(6) \quad \text{Round}(8)$$

$$6 < 8 \quad 10 \geq 10$$

Feb 24-9:29 AM

$$|x| \leq 0$$

① x is positive

② x is neg.

Feb 24-9:33 AM

$$\frac{7}{9} \cdot \frac{6}{6} = \frac{42}{54} \quad \left| \quad \frac{5}{6} \cdot \frac{9}{9} = \frac{45}{54}$$

Feb 24-9:36 AM

Tractions

① $\frac{a}{b} \cdot \frac{c}{d} = \frac{ac}{bd}$
See questions #2 & #10 from section 11.

Operations on Tractions

① *Multiplication*

$$\frac{a}{b} \cdot \frac{c}{d} = \frac{ac}{bd}$$

$$\frac{5}{7} \cdot \frac{3}{4} = \frac{15}{28}$$

$$\frac{4}{5} \cdot \frac{7}{12} = \frac{28}{60}$$

$$\frac{2 \cdot 2}{5} \cdot \frac{7}{2 \cdot 2 \cdot 3}$$

$$\frac{2 \cdot 2 \cdot 7}{5 \cdot 2 \cdot 2 \cdot 3}$$

$$\frac{\cancel{2} \cdot \cancel{2} \cdot 7}{5 \cdot \cancel{2} \cdot \cancel{2} \cdot 3} = \frac{7}{15}$$

Feb 24-9:39 AM