

February 17, 2017

Exam #1 - Review

$$\textcircled{1} (y-7) - (y+3) = 3y$$

$$\cancel{y} - 7 - \cancel{y} - 3 = 3y \text{ Dist}$$

$$\frac{-10}{3} = 3y \text{ Assoc/Com}$$

$$\frac{-10}{3} = y \text{ M.I.}$$

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$$\left(-\frac{10}{3} - \frac{7}{1}\right) - \left(-\frac{10}{3} + \frac{3}{1}\right) = \cancel{3} \left(\frac{10}{3}\right)$$

$$\left(\frac{-10-21}{3}\right) - \left(\frac{-10+9}{3}\right) = -10$$

$$-\frac{31}{3} - \left(-\frac{1}{3}\right) = -10$$

$$\frac{-31+1}{3}$$

$$\frac{-30}{3} = -10$$

$$-10 = -10 \checkmark$$

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LCD: 100

$$100(0.60x - 0.30(60+x) = 0.05(60))$$

$$60x - 30(60+x) = 5(60)$$

$$60x - 1800 - 30x = 300 \text{ Dist}$$

$$-1800 + 30x = 300 \text{ Assoc/Com}$$

$$30x = 2100 \text{ A.D.}$$

$$\boxed{x = 70} \text{ M.I.}$$

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$$\frac{5(7-x)}{2} = x$$

$$2\left(\frac{35-5x}{2} = x\right) \text{ Dist}$$

$$35-5x = 2x \text{ Dist LCD}$$

$$35 = 7x \text{ A.D.}$$

$$\boxed{5=x} \text{ M.I.}$$

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$$9 - \frac{3}{1} \div \frac{1}{3} + 1 = ?$$

$$9 - \frac{3}{1} \cdot \frac{3}{1} + 1$$

$$9 - 9 + 1$$

$$1$$

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