

August 22, 2018
 * Quiz #1 - Friday

Aug 22-11:18 AM

$$2x + 2 = 5x - 7 \quad +7 \leftarrow \text{A. I.}$$

$$2x + 9 = 5x \quad -2x \text{ A. I.}$$

$$\frac{9}{3} = \frac{3x}{3} \quad \text{M. I.}$$

$$3 = 1 \cdot x$$

$$3 = x$$

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Additive Inverse
 $+a + (-a) = 0$
 Additive Identity
 $a + 0 = a$

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Multiplicative Inverse
 $\frac{1}{1} \cdot \frac{a}{a} = \frac{a}{a} = 1$
 $\frac{1}{6} \cdot \frac{6}{1} = \frac{6}{6} = 1$
 Multiplicative Identity
 $a \cdot 1 = a$

Aug 22-11:29 AM

$$\frac{1}{5}x + 3 = \frac{3}{10}x - 8 \quad -3 \text{ A. I.}$$

$$\frac{1}{5}x = \frac{3}{10}x - 11 \quad \text{M. I.}$$

$$\left[\frac{10}{1} \cdot \frac{1}{5} \cdot \frac{x}{1} \right] = \left[\frac{10}{1} \cdot \frac{3}{10} \cdot \frac{x}{1} \right] + \left[\frac{10}{1} \cdot (-11) \right]$$

$$2x = 3x - 110$$

$$-3x \quad -3x$$

$$\frac{-1x}{-1} = \frac{-110}{-1}$$

$$x = 110$$

Aug 22-11:36 AM

$$P = 2L + 2W$$

$$P - 2W = 2L$$

$$\frac{P - 2W}{2} = L$$

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$$N_1 + pN_1 = N_2$$

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