February 13, 2017

* Exam #1 - Next Monday

Feb 13-9:05 AM

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

$\frac{2}{1}\left(\frac{35-5x}{2} = \frac{x}{1}\right)$ Dist

LCD: $\frac{2}{1}$

$\frac{2}{1}\cdot\frac{35-5x}{2} = \frac{2}{1}\cdot\frac{x}{1}$

$35 - 5x = 2x$ Dist LCD

$+5x \quad +5x$

$\frac{35}{7} = \frac{7x}{7}$ A.A.

$5 = x$ M.A.

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#9) $P = 2L + 2W$ solve for L

$-2W \quad -2W$

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

$\frac{P-2W}{2} = L$ M.A.

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#10) $F = \frac{9}{5}C + 32$; solve for C

$-32 \quad -32$

$F - 32 = \frac{9}{5}C$

$\frac{9}{5}$

$\frac{F}{\frac{9}{5}} - \frac{32}{\frac{9}{5}} = C$

$F \cdot \frac{5}{9} - \frac{32}{1}\cdot\frac{5}{9} = C$

$\frac{F5}{9} - \frac{160}{9} = C$

$\frac{F5-160}{9} = C$

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LCD: 5

$5\left(F = \frac{9}{5}C + 32\right)$

$5F = 9C + 160$ Dist

$5F - 160 = 9C$ A.A.

$\frac{5F-160}{9} = C$ M.A.

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$abcx\left(\frac{1}{a} - \frac{1}{b} + \frac{1}{c} = \frac{1}{x}\right)$; solve for b

$\left[\frac{abcx}{1}\cdot\frac{1}{a}\right] + \left[\frac{abcx}{1}\cdot\left(-\frac{1}{b}\right)\right] + \left[\frac{abcx}{1}\cdot\frac{1}{c}\right] = \left[\frac{abcx}{1}\cdot\frac{1}{x}\right]$

$bcx - acx + abx = abc$ Dist

$bcx + abx - abc = acx$

$\frac{b(cx + ax - ac)}{(cx+ax-ac)} = \frac{acx}{(cx+ax-ac)}$ Dist

$b = \frac{acx}{cx+ax-ac}$

Feb 13-9:37 AM