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OCTOBER 2015

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
18	19	20	21	22	23	24
	Variables on both Sides w.s	4.9 # 7, 8, 9	4.8 ET	4.7 P.S	* Quiz * Review - No HW -	3:00 - 6:00 Carnival

4.4 With Variables on Both Sides Before. Solving, fully simplify each side

~~Exit Ticket~~ Class work

$$\begin{array}{r}
 1. \quad 5x - 2 = 8 \\
 \quad \quad + 2 \quad | \quad + 2 \\
 \quad \quad 5x = 10 \\
 \quad \quad x = 2
 \end{array}$$

given

Then move all variables to one side by adding or subtracting the entire term.

(move the smaller term)

addition prop. of eq.

div. prop. of eq.

$$\begin{array}{r}
 2. \quad \underline{7x} - 4 + \underline{x} = 12 \\
 \quad \quad 8x - 4 = 12 \\
 \quad \quad \quad \quad | \\
 \quad \quad 8x = 16 \\
 \quad \quad \quad \quad | \\
 \quad \quad x = 2
 \end{array}$$

given

combine like terms

add. prop. of eq.

div. prop. of eq.

$$3. \quad \underline{3x} + 2 - \underline{x} = 11x + 9 \quad \text{given}$$

$$\begin{array}{r}
 2x + 2 = 11x + 9 \\
 -2x \quad | \quad -2x
 \end{array}$$

combine like terms

$$4.) \quad \begin{array}{r} 4x - 2 = 3x + 4 \\ -3x \quad \quad -3x \\ \hline x - 2 = 4 \end{array}$$

$$x = 6$$

given

subt. prop. of eq. &
Combine like terms

add. prop. of eq.

$$5.) \quad 5 - (n - 4) = 3(n + 2) \quad \text{given}$$

$$\underline{5} - n + \underline{4} = 3n + 6$$

$$\begin{array}{r} 9 - \cancel{n} = 3n + 6 \\ +n \quad \quad +n \end{array}$$

$$\begin{array}{r} 9 = 4n + 6 \\ -6 \quad \quad -6 \end{array}$$

$$\frac{3}{4} = \frac{4n}{4}$$

given

dist. prop.

combine like terms

add. prop. of eq.
& combine like terms

subt. prop. of eq.

6.) Melissa and Josh are trying to save money. Melissa starts with 20 dollars and saves 5 every week. Josh starts with 30 dollars and saves 3 every week. After how many weeks will Melissa and Josh have the same amount of money?

Let x be the number of weeks

$$\text{Melissa} = \text{Josh}$$

$$20 + 5x = 30 + 3x \quad \text{given}$$

$$\begin{array}{r} -20 \\ \hline 20 + 2x = 30 \end{array}$$

subt. prop of eq.
+ combine

$$\frac{2x}{2} = \frac{10}{2}$$

subt. prop of eq.

$$x = 5$$

div. prop. of eq.