

January 13, 2017

- 1.) Conditional: true for some values
- 2.) Identity: true for all values
- 3.) Contradiction: not true for any value

Jan 13-9:56 AM

$$\begin{aligned} \overline{-(6-2w)} &= 4(w+1) - 2w - 10 \\ -6 + 2w &= 4w + 4 - 2w - 10 \\ -6 + 2w &= 2w - 6 \\ +6 \quad -2w &\quad -2w \quad +6 \\ 0 &= 0 \text{ true} \\ &\text{Identity} \end{aligned}$$


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$$-6 + 2w = 2w - 6$$

$w = 4$

$$\begin{aligned} -6 + 2(4) &= 2(4) - 6 \\ -6 + 8 &= 8 - 6 \\ 2 &= 2 \end{aligned}$$

Jan 13-9:52 AM

$$\begin{aligned} 2(\overline{x+5}) &= 20 \\ 2x + 10 &= 20 \\ 2x &= 10 \\ x &= 5 \\ \text{Solution set: } &\{5\} \end{aligned}$$

Jan 13-10:01 AM

Quiz #1 - Wednesday  
on solving equations  
- A!

Jan 13-10:02 AM

$$\begin{aligned} 4[1 - 3(x+1)] &= 5(x+2) \\ 4[1 - 3x - 3] &= 5x + 10 \\ 4[-2 - 3x] &= 5x + 10 \\ -8 - 12x &= 5x + 10 \\ -10 + 12x &\quad +12x - 10 \\ &= 18 = \frac{17x}{17} \\ \boxed{-\frac{18}{17} = x} \end{aligned}$$

Jan 13-10:15 AM

$$\begin{aligned} 4\left[1 - 3\left(-\frac{18}{17} + 1\right)\right] &= 5\left(-\frac{18}{17} + 2\right) \\ \left(-\frac{18}{17} + 1\right) &= 5\left(\frac{-18+34}{17}\right) \\ &\quad \frac{-18+17}{17} \\ 4\left[1 - \frac{3}{17}\left(-\frac{1}{17}\right)\right] &= 5\left(\frac{16}{17}\right) \\ 4\left[1 + \frac{3}{17}\right] &= \frac{80}{17} \\ 4\left[\frac{17+3}{17}\right] &= \frac{80}{17} \\ 4\left[\frac{20}{17}\right] &= \frac{80}{17} \checkmark \text{ (Smiley Face)} \end{aligned}$$

Jan 13-10:20 AM

$$252 \left( \frac{2x+3}{18} - \frac{3x-1}{14} \right) = \frac{7x-4}{3}$$

$$28x + 42 - 54x + 18 =$$

Jan 13-10:28 AM