January 13, 2017

* Quiz #1 - Wednesday
  - #1 - ~~Solving Equations~~

Jan 13-10:51 AM

#24

$x = -\frac{18}{17}$

$4[1 - 3(x+1)] = 5(x+2)$

$4\left[1 - 3\left(-\frac{18}{17} + \frac{17}{17}\right)\right] = 5\left(-\frac{18}{17} + \frac{2}{1}\right)$

$4\left[1 - 3\left(\frac{-18+17}{17}\right)\right] = \frac{5}{1}\left(\frac{-18+34}{17}\right)$

$4\left[1 - 3\left(-\frac{1}{17}\right)\right] = \frac{5}{1}\left(\frac{16}{17}\right)$

$4\left[\frac{1}{1} + \frac{3}{17}\right] = \frac{80}{17}$

$4\left[\frac{17+3}{17}\right]$

$\frac{4}{1}\left[\frac{20}{17}\right]$

$\frac{80}{17} = \frac{80}{17}$ ✓ ☺

Jan 13-11:26 AM

1.) Conditional: it will be true for some values of the variable

$2(x+5) = 20$

$2x + 10 = 20$

$2x = 10$

$x = 5$

Solution set: $\{5\}$

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2.) Identity: is true for all values

$-6 + 2x = 2(x-3)$

$-6 + 2x = 2x - 6$

$+6 \quad -2x \qquad -2x \quad +6$

$0 = 0$ true

$x = 4$

$-6 + 2(4) = 2(4) - 6$

$-6 + 8 = 8 - 6$

$2 = 2$

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3.) Contradiction: is not true for any value

no solution

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$3x^2 + 15x + 18 = 0$

① factor: if factorable

② Completing the Square

③ Quadratic Formula

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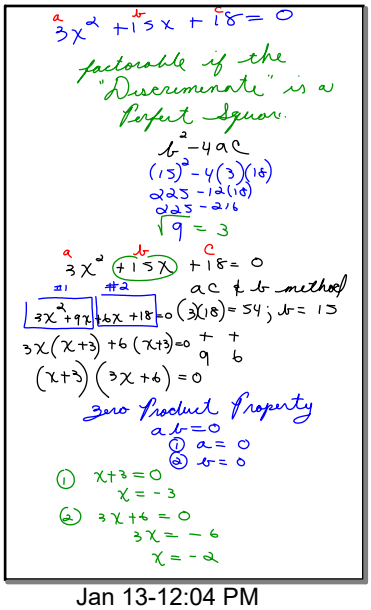

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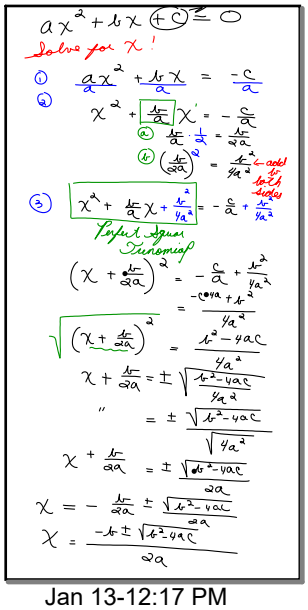

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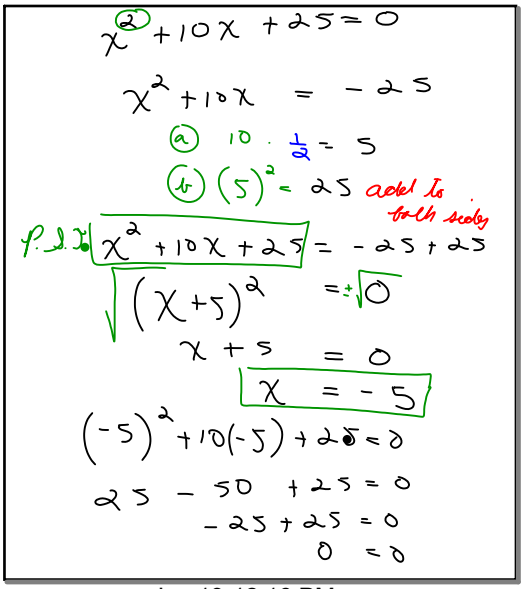

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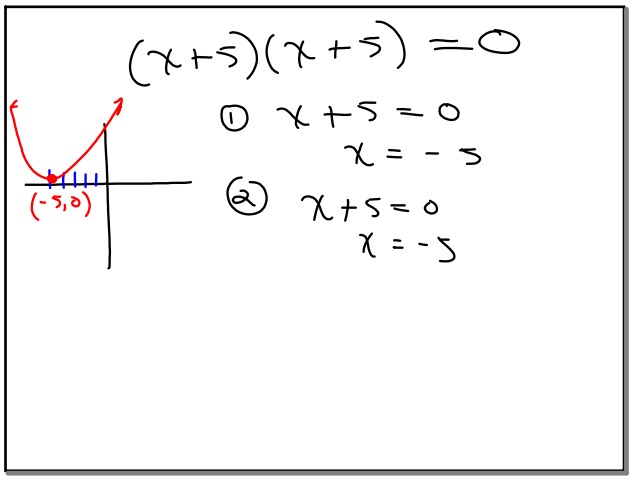

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