Algebra 1 Bellwork Friday, October 16, 2015

1. Find the exact solution for each equation.

a) $2x + 11 - 6(x - 8) - 3x + 21 = 46$

b) $\frac{2}{3}(6m - 21) + 29 = -42$

2. Simplify. $18(\frac{5}{9} - \frac{5}{6}R)$

3. Simplify. $\frac{5}{16} + \frac{9}{12} - \frac{13}{8}$

Algebra 1 Bellwork Friday, October 16, 2015 Answers

1. Find the exact solution for each equation.

a) $2x + 11 - 6(x - 8) - 3x + 21 = 46$

$2x+11-6x+48-3x+21=46$

$-7x+80=46$

$-80 \quad -80$

$\frac{-7x}{-7} = \frac{-34}{-7}$

$x = \frac{34}{7}$

b) $\frac{2}{3}(6m - 21) + 29 = -42$

$4m - 14 + 29 = -42$

$4m + 15 = -42$

$-15 \quad -15$

$\frac{4m}{4} = \frac{-57}{4}$

$m = -\frac{57}{4}$

2. Simplify. $18(\frac{5}{9} - \frac{5}{6}R)$

$10 - 15R$

3. Simplify. $\frac{5}{16} + \frac{9}{12} - \frac{13}{8}$ LCD = 48

$\frac{5}{16}\cdot\frac{3}{3} + \frac{9}{12}\cdot\frac{4}{4} - \frac{13}{8}\cdot\frac{6}{6}$

$\frac{15}{48} + \frac{36}{48} - \frac{78}{48}$

$= \frac{-27}{48} = -\frac{9}{16}$