

## Solving For An Unknown Variable

Directions: Find the value of each variable in the following equations. Show your work!

1)  $9y + 8 = 4y + 3$

2)  $5a + 6(2 - a) = -6$

3)  $\frac{2}{5}x - \frac{3}{10} = \frac{1}{4}x + 3$

4)  $7x - 2 = 12x - 12$

5)  $9b + 2(6 - b) = -9$

6)  $\frac{7}{8}x + \frac{5}{7} = \frac{1}{2}x + 6\frac{5}{7}$

7)  $6x + 3 = 14x - 9$

8)  $4x + 6(3 - x) + 7 = -3$

9)  $\frac{2}{3}x - \frac{1}{6} = \frac{3}{4}x + 4$

10)  $4.5r + 4 = 10.5r - 14$

11)  $4p - 20 = -6p + 5.5$

12)  $\frac{9}{10}w - \frac{1}{2} = \frac{2}{5}w + 3$

