

Algebra 1 - Solving Equations #1

Solve each of the following:

1. $4x - 2(2 - x) = 2(3x - 2)$

2. $\frac{2x+5}{3} + 8 = x - 1$

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

$$4. 4x - (10 - x) = \frac{15}{2}$$

$$5. 6 + \frac{1}{3}(x - 9) = \frac{1}{2}(2 - x)$$

$$6. 3x - 0.4(5 - 2x) = 5.6$$

$$7. |3x - 5| + 2x = 5 - x$$

$$8. 2^3 + \frac{2x+2}{2} = 3x + 3$$

$$9. 3(2x + 1) - 4 = 2(3x + 2) - 5$$

$$10. \quad 4x - 3(x + 2) = 2x + 5 - 3x$$

$$11. \quad 2(x - 7) + 3 = 2x + 9$$

$$12. \quad 4 - 5(x - 3) + 2x = -2$$

$$13. \quad 2(x - 1) + 4 = 3(x + 2) - x$$

$$14. \quad \frac{2x+3}{4} = \frac{3x-1}{2}$$

$$15. \quad 3(2x - 1) - 4(x + 2) = 5x + 6$$