

Solve for the unknown quantity. Show your work.

1. $8(3a + 6) = 9(2a - 4)$

2. $\frac{1}{3}h - 4\left(\frac{2}{3}h - 3\right) = \frac{2}{3}h - 6$

3. $8(c - 9) = 6(2c - 12) - 4c$

4. $-10y + 18 = -3(5y - 7) + 5y$

5. $5(5 + 2x) - 5 = 3(3x + 7)$

6. $8(t + 2) - 3(t - 4) = 6(t - 7) + 8$

Solve each equation for y. Show your work.

7. $-2x + 7y = -28$

8. $6x + 2y = -4$

Solve each equation for y. Show your work.

9. $2x - 5y = 10$

10. $-4x - 3y = 15$

11. $3x + y = 4$

12. $7x = -11 + 2y$

13. $4x + 3y = 12$

14. $-20x + 5y = -25$

15. $y - 30x = 100$

16. $-6x + 5y = 25$ for y