

Solve each of the following.

1. $3x+4=16$

2. $5x+3=54$

3. $-4x-7=12$

4. $\frac{2}{3}x + 4 = 9$

5. $4x - 5 = 2x + 7$

6. $3(y - 7) = 3x + 4$

7. $7(2\alpha - 6) = 2(7\alpha - 21)$

8. $\frac{2}{9}\gamma - 4 = 3\gamma - 81$

Solve each of the following for the indicated variable.

9. $t=rc+w$, for c

10. $rx+tb=y$, for x

11. $2r+5m=r$, for r

12. $m = \frac{y_2 - y_1}{x_2 - x_1}$ for x_1

13. $2a-6r+3c=x$, for c

14. $\frac{1}{2}x + yr = m$, for r

15. $y=Ax^2+Bx+C$, for A

16. $x = \frac{1}{2}at^2 + vt$, for v