

Number of solutions — ANSWER KEY

Solve. Write the solution, or say if there is no solution or infinitely many solutions.

1. $-5(x - 7) = -4x + 34$

Answer: **$x = 1$**

2. $3(y - 3) = 3y - 7$

Answer: **no solution**

3. $-4(t + 4) = -4t - 11$

Answer: **no solution**

4. $2(t + 2) = 2t + 5$

Answer: **no solution**

5. $-6(y - 9) = y + 26$

Answer: **$y = 4$**

6. $2(m - 4) = 2m - 12$

Answer: **no solution**

7. $-6(n - 4) = -5n + 16$

Answer: **$n = 8$**

8. $-2(k + 7) = -2k - 19$

Answer: **no solution**

9. $6(m + 4) = 6m + 24$

Answer: **infinitely many solutions**

10. $6(y + 9) = 5y + 51$

Answer: **$y = -3$**

11. $5(m + 5) = 5m + 21$

Answer: **no solution**

12. $-2(m + 6) = -2m - 6$

Answer: **no solution**