

Number of solutions — ANSWER KEY

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

1. $3(n - 7) = 6n - 39$

Answer: **$n = 6$**

2. $4(m + 3) = 4m + 12$

Answer: **infinitely many solutions**

3. $2(x - 9) = 2x - 18$

Answer: **infinitely many solutions**

4. $3(m - 9) = 3m - 30$

Answer: **no solution**

5. $6(t - 2) = 6t - 18$

Answer: **no solution**

6. $-6(y - 9) = 8y + 166$

Answer: **$y = -8$**

7. $4(m - 3) = 4m - 12$

Answer: **infinitely many solutions**

8. $-6(t + 7) = 5t - 119$

Answer: **$t = 7$**

9. $-3(k + 2) = -2k - 12$

Answer: **$k = 6$**

10. $-6(y + 4) = -6y - 24$

Answer: **infinitely many solutions**

11. $4(k - 6) = -6k - 4$

Answer: **$k = 2$**

12. $5(t + 7) = 5t + 35$

Answer: **infinitely many solutions**