

Number of solutions — ANSWER KEY

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

1. $3(n + 8) = 6n + 42$

Answer: **$n = -6$**

2. $-6(k + 6) = -2k - 28$

Answer: **$k = -2$**

3. $2(t + 8) = 2t + 16$

Answer: **infinitely many solutions**

4. $4(m - 5) = -5m + 52$

Answer: **$m = 8$**

5. $5(m - 9) = 5m - 51$

Answer: **no solution**

6. $6(n + 9) = -9n + 54$

Answer: **$n = 0$**

7. $3(m + 3) = 3m + 9$

Answer: **infinitely many solutions**

8. $5(m + 9) = 5m + 52$

Answer: **no solution**

9. $-2(n - 6) = 6n + 28$

Answer: **$n = -2$**

10. $4(y + 4) = 4y + 16$

Answer: **infinitely many solutions**

11. $2(y + 3) = 2y + 7$

Answer: **no solution**

12. $3(k - 2) = 3k - 6$

Answer: **infinitely many solutions**