

2-4: Practice Solving Equations With Variables on Both Sides

SOLVE each equation **CHECK** your answer. Show all work or no credit!

1. $7(h + 3) = 6(h - 3)$

Check:

2. $-(5a + 6) = 2(3a + 8)$

Check:

3. $-2(2f - 4) = -4(-f + 2)$

Check:

4. $3w - 6 + 2w = -2 + w$

Check:

5. $-8x - (3x + 6) = 4 - x$

Check:

6. $14 + 3n = 8n - 3(n - 4)$

Check:

Determine whether each equation is **identity** or whether it has **no solution**. Show all work.

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

Answer:

8. $5x + 2x - 3 = -3x + 10x$

Answer:

9. $-(3z + 4) = 6z - 3(3z + 2)$

Answer:

10. $-2(j - 3) = -2j + 6$

Answer:

Answers: -39, -2, 2, 1, -1, 1, all real numbers, no solutions, no solutions, all real numbers