

Practice – Special Solutions

Solve each inequality, if possible. If the inequality has no solution, write *no solution*. If the solutions are all real numbers, write *all real numbers*.

1. $6w + 5 > 2(3w + 3)$

2. $-5r + 15 \geq -5(r - 2)$

3. $-2(6 + s) < -16 - 2s$

4. $9 + 2x < 7 + 2(x - 3)$

Solve each equation. If the equation is an identity, write *identity*. If it has no solution, write *no solution*.

5. $0.2f + 0.6(f + 20) = -8 + 0.4f$

6. $-8t - 3t + 2 = -5t - 6t$

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

8. $\frac{3}{4} + \frac{1}{4}m = \frac{3}{4}m - \frac{1}{4}$

9. $5.5 - 3b = 2b - 6.25$

10. $-5(5.25 + 3.1x) = -6.2(2.5x + 1.9)$