

Directions: Solve the following inequalities.

1. $-4(x + 1)(x + 5)(x - 3) < 0$

2. $2x(x - 2)(x - 6)(x + 9) \geq 0$

3. $x^2(x - 2)^2(x + 7) \leq 0$

4. $-3x(x + 4)^3(x - 2)^2(x - 11) \geq 0$

5. $x(x + 5)^2(x - 1)^3 \leq 0$

6. $(x^2 - 4)(x^2 + 4x + 4) < 0$

7. $x^2(x^3 - x)(x - 1) \leq 0$

8. $-3(x + 4)^2(x - 3)(x^2 + x - 12) \geq 0$

9. $2x^2 - x - 6 \leq x^2 + 14$

10. $5(x^2 - 25)(x^4 + 3x^3 - 10x^2) < 0$