

Polynomial Inequalities-Practice

Solve each polynomial inequality. Find the x-intercepts algebraically. Sketch the graph. Answer in interval notation.

1. $9x^2 - 9x - 10 < 0$

2. $x^2 - 5x > -4$

3. $n^3 + 5n^2 - 9n - 45 < 0$

4. $2t^2 - 6t \leq 20$

5. $3x^2 - 10x + 5 \geq 0$

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

7. $x^3 - 16x \geq 0$

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