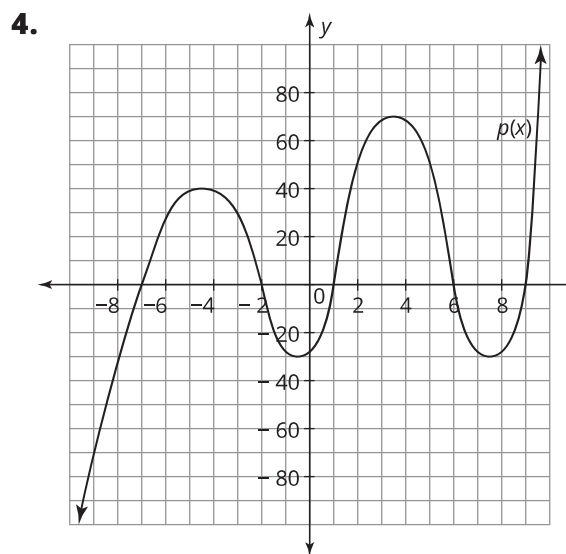
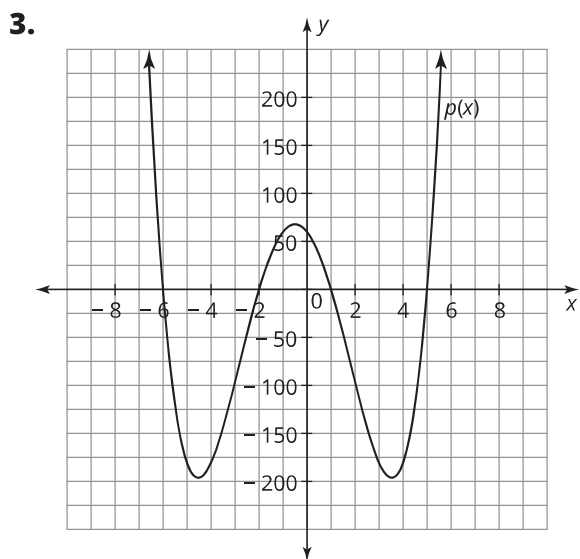
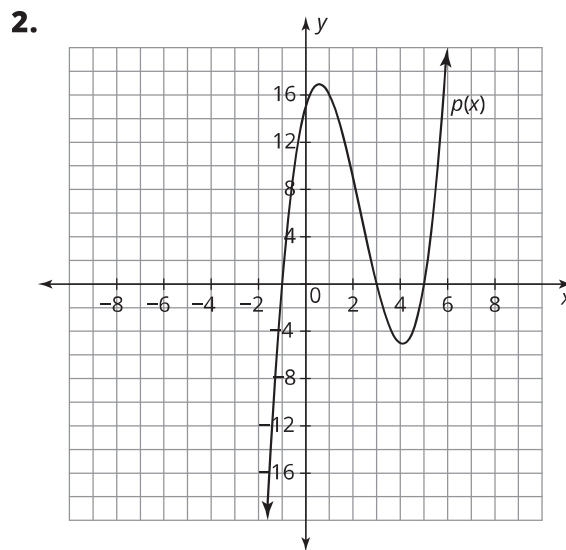
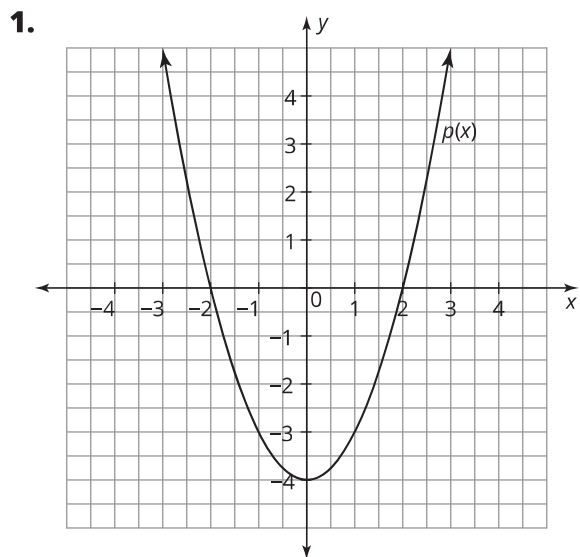


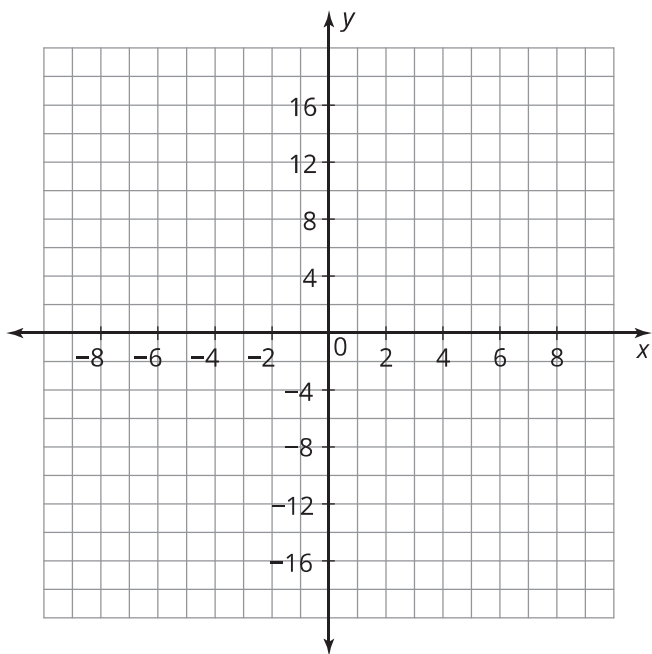
IV. Solving Polynomial Inequalities

A. Analyze the graph. Identify the set of x -values to represent when $p(x) < 0$ and when $p(x) > 0$.

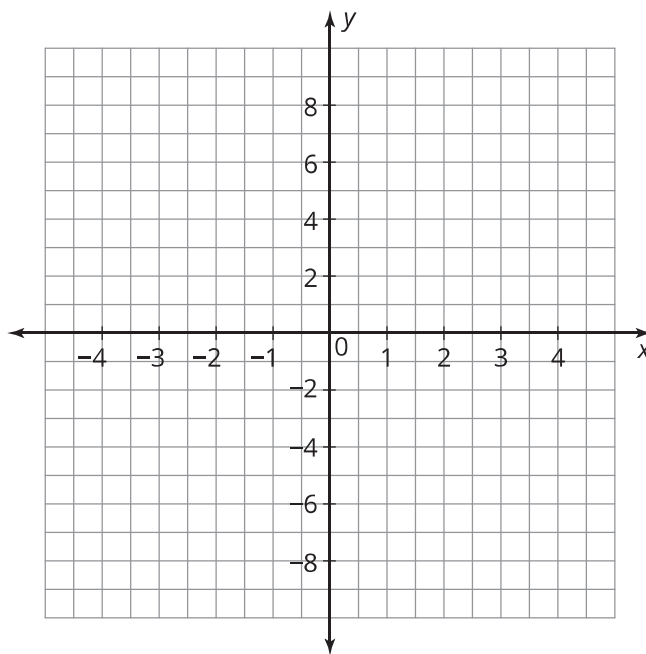


C. Solve each inequality by factoring and sketching. Use the coordinate plane to sketch the general graph of the polynomial in order to determine which values satisfy the inequality.

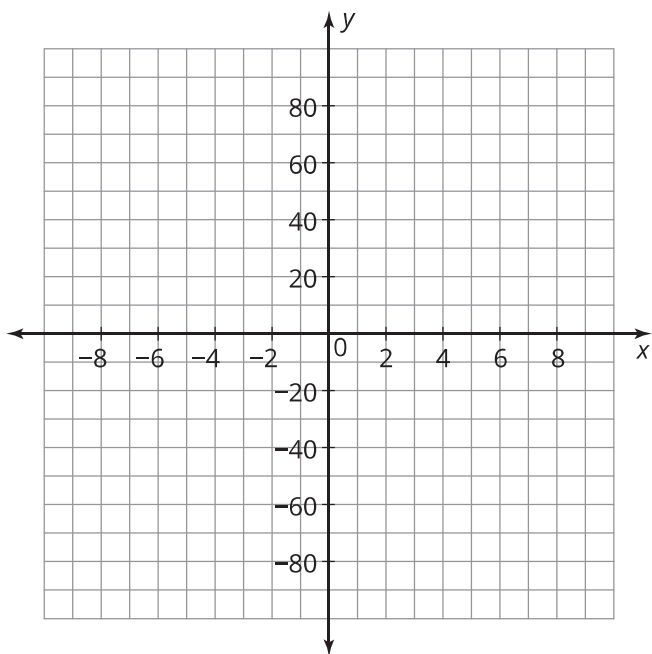
1. $x^2 - 3x - 10 < 0$



2. $x^3 + 3x^2 + x + 3 \geq 0$



3. $2x^3 + 6x^2 - 20x \leq 0$



4. $x^3 + 4x^2 + x - 6 > 0$

