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4-8 Study Guide and Intervention Quadratic Inequalities

Graph Quadratic Inequalities To graph a quadratic inequality in two variables, use the following steps:

1. Graph the related quadratic equation, $y = ax^2 + bx + c$. Use a dashed line for $<$ or $>$; use a solid line for \leq or \geq .
2. Test a point inside the parabola. If it satisfies the inequality, shade the region inside the parabola; otherwise, shade the region outside the parabola.

Example: Graph the inequality $y > x^2 + 6x + 7$.

First graph the equation $y = x^2 + 6x + 7$. By completing the square, you get the vertex form of the equation $y = (x + 3)^2 - 2$, so the vertex is $(-3, -2)$. Make a table of values around $x = -3$, and graph. Since the inequality includes $>$, use a dashed line. Test the point $(-3, 0)$, which is inside the parabola. Since $(-3)^2 + 6(-3) + 7 = -2$, and $0 > -2$, $(-3, 0)$ satisfies the inequality. Therefore, shade the region inside the parabola.



Exercises

Graph each inequality.

1. $y > x^2 - 8x + 17$

2. $y \leq x^2 + 8x + 4$

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



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