

Download Quadratic Inequalities Worksheet

Solving Quadratic Inequalities Worksheets. Use dotted lines for $>$ and $<$ signs; and solid lines for \geq and \leq signs. Identify the region in the graph by either using a point inside or outside the parabola. The solution will be the region on the graph that contains the point which satisfies the inequality. A quadratic inequality is a function with a degree of 2, in which y may not be exactly equal to the function. Quadratic inequalities use inequality symbols (less than, greater than, less than or equal to, and greater than or equal to) to express relationship.

4-2
QUADRATIC INEQUALITIES

1. Move all terms to one side.
2. Simplify and factor the quadratic expression.
3. Find the roots of the corresponding quadratic equation.
4. Use the roots to divide the number line into regions.
5. Test each region using the inequality.

Definition Quadratic inequalities in one variable are inequalities which can be written in one of the following forms: $ax^2 + bx + c > 0$, $ax^2 + bx + c < 0$, $ax^2 + bx + c \geq 0$ or $ax^2 + bx + c \leq 0$ where a , b and c are real numbers.

Procedure Solving Quadratic Inequalities

1. Move all terms to one side.
2. Simplify and factor the quadratic expression.

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Other Files :