

Linear inequalities and regions of graphs

A LEVEL LINKS

Scheme of work: 1d. Inequalities – linear and quadratic (including graphical solutions)

Key points

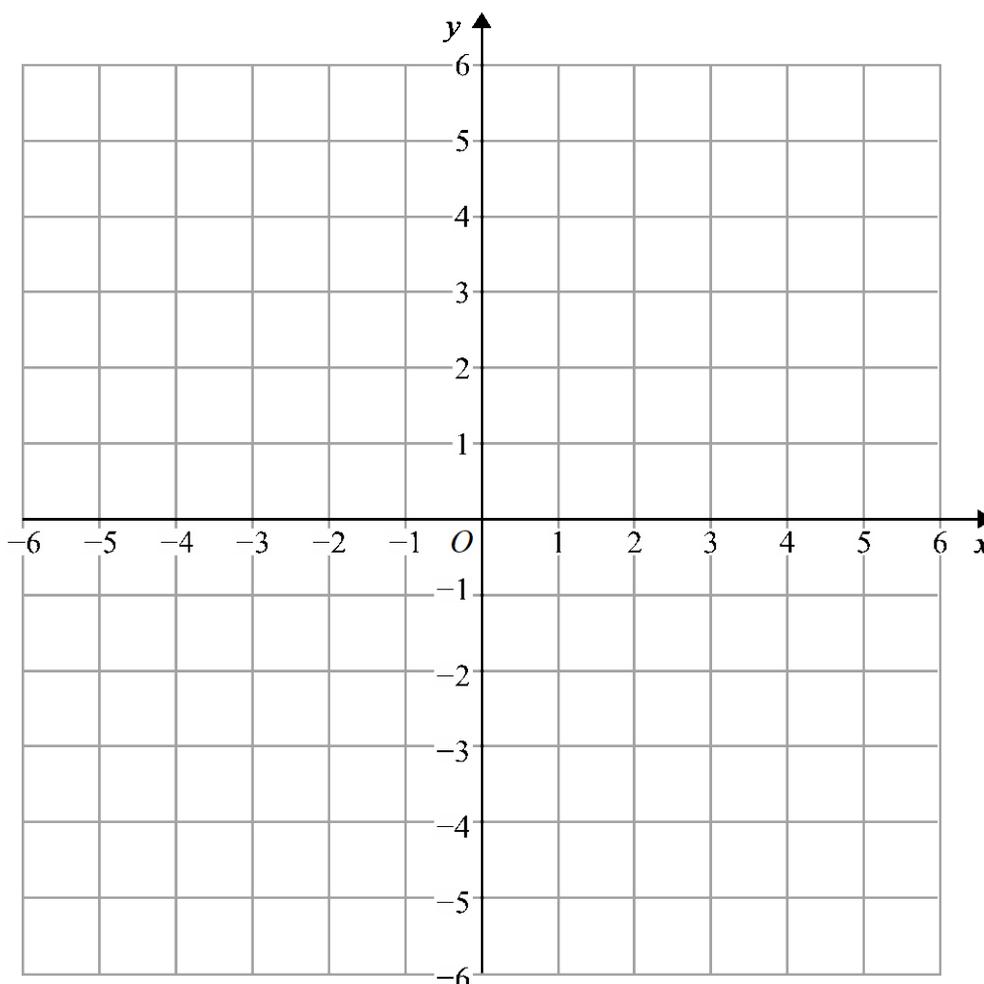
- First replace the inequality sign by = and solve the quadratic equation.
- Sketch the graph of the quadratic function.
- Use the graph to find the values which satisfy the quadratic inequality.

Practice questions

1 On the grid, shade the region that satisfies all these inequalities.

$$y > 1 \quad x + y < 5 \quad y > 2x$$

Label the region **R**.



Answers

1

