

Section 3.7: Graphing Linear Inequalities

Graphing Linear Inequalities

1. Determine if the line will be a solid line or dashed line.
 - If the inequality sign is $<$ or $>$, graph a dashed line. This indicates the points on the line are not solutions of the inequality.
 - If the inequality sign is \leq or \geq , graph a solid line. This indicates the points on the line are solutions of the inequality.
2. Replace the inequality symbol with an equal sign and graph the line.
3. Choose a test point (that is not on the line).
 - If the test point you choose is true, then shade the side the half plane (with the test point).
 - If the test point you choose is false, then shade the opposite side of the half plane.

Graph each inequality.

