

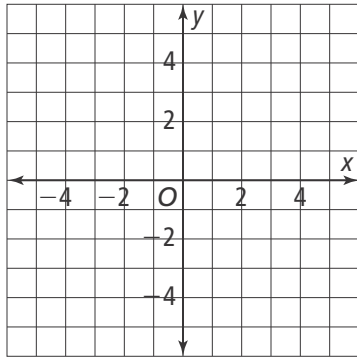


4-4 Additional Practice

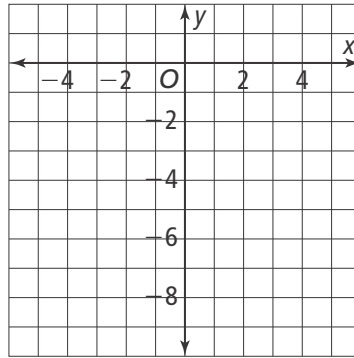
Linear Inequalities in Two Variables

Graph the inequality in the coordinate plane.

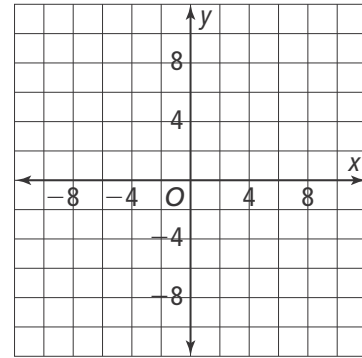
1. $y < x$



2. $y \leq 3x - 6$



3. $x - 2y > -4$



4. Explain the process of graphing a linear inequality in two variables. Discuss how to determine whether the boundary line is solid or dashed.

5. Tickets to a play cost \$10 at the door and \$8 in advance. The theatre club wants to raise at least \$800 from the sale of the tickets from the play. Write and graph an inequality for the number of tickets the theatre club needs to sell. If the club sells 40 tickets in advance, how many does it need to sell at the door to reach its goal? Use x to represent the number of tickets sold at the door. Use y to represent the number of tickets sold in advance.

