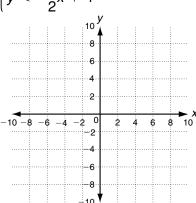
Practice B

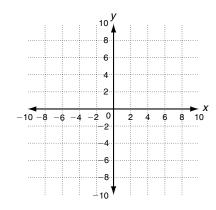
3-3 Solving Systems of Linear Inequalities

Graph each system of inequalities.

1.
$$\begin{cases} y \le 3x - 5 \\ y < -\frac{1}{2}x + 4 \end{cases}$$

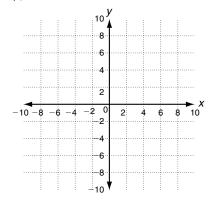


2.
$$\begin{cases} y < x + 5 \\ y \ge 4x - 2 \end{cases}$$

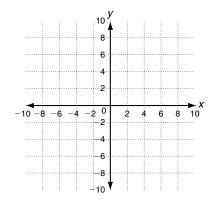


Graph the system of inequalities, and classify the figure created by the solution region.

3.
$$\begin{cases} x \le 2 \\ x \ge -3 \\ y \le 2x + 2 \\ y \ge 2x - 1 \end{cases}$$



4.
$$\begin{cases} y \le -x + 4 \\ y \le 3 \\ y \ge 0 \\ y \ge -2x - 1 \end{cases}$$



Solve.

5. The Thespian Club is selling tickets to its annual variety show. Prices are \$8 for an adult ticket and \$4 for a student ticket. The club needs to raise \$1000 to pay for costumes and stage sets. The auditorium has a seating capacity of 240. Write and graph a system of inequalities that can be used to determine how many tickets have to be sold for the club to meet its goal.

