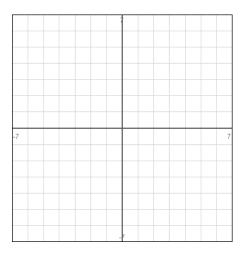
Solving Systems of Inequalities

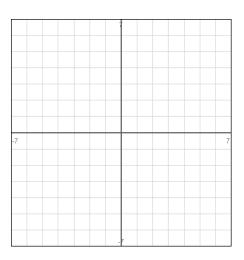
- Step 1: Rewrite each inequality in slope-intercept form.
- Step 2: Graph the inequalities and find the intersection of their shaded regions.

Directions: Solve each system of inequalities by graphing.

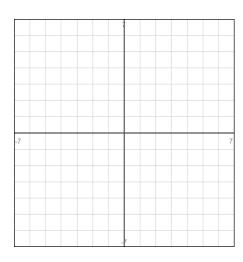
$$1. \ y + 3x \ge 6$$
$$y < 2x - 4$$



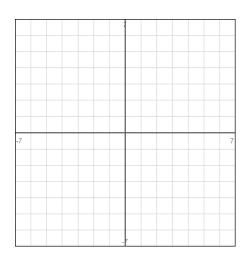
$$2. \quad 2x + y \le 6$$
$$x + y - 2 > 0$$



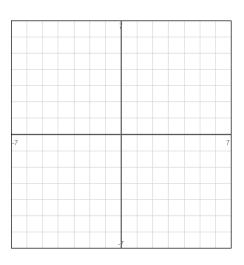
3.
$$x < 2$$
 $y \ge 3$



$$4. \ y \ge x$$
$$y \le x - 4$$



$$5. \quad 2x - \frac{1}{4}y \le 1$$
$$4x + 8y \ge 4$$



Directions: Determine if the given point is a solution to the system of inequalities.

$$y \le 4x + 1$$

$$2x - 3y > 20$$

7.
$$\left(-1,4\right)$$

 $3x - y < 7$
 $y + 2 \ge x$