Chapter 7 Section 6

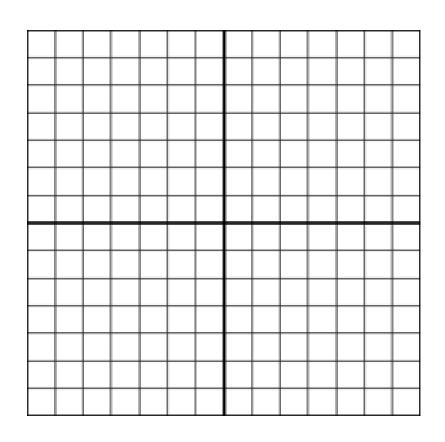
Systems of Linear Inequalities

Graphing Systems of Inequalities

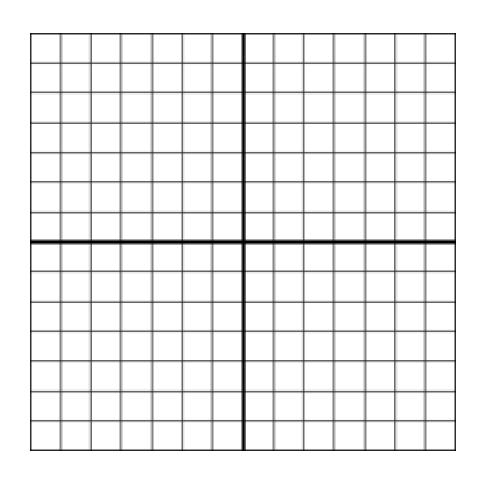
STEPS:

- Rewrite inequalities in slope-intercept form y = mx + b
- Graph the first inequality
- Shade in the correct area
- Graph the second inequality
- Shade in the correct area
- Where the shading overlaps is the answer
 - Darken that area
 - < or > is a dotted line
 - ≤ or ≥ is a solid line

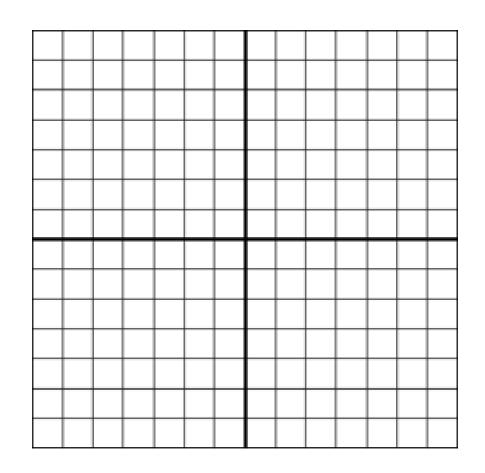
$$1. \quad 2x + y \ge -4$$
$$x - 2y < 4$$



$$2. \quad -x + y \ge -2 \\
y - 1 < x$$



$$3x + y \le 5$$
$$y > 2$$



$$y \le 6$$

$$y \le 6$$
$$x > -3$$

$$y \ge 2x - 1$$

