

Precalculus

8-05 Systems of Inequalities

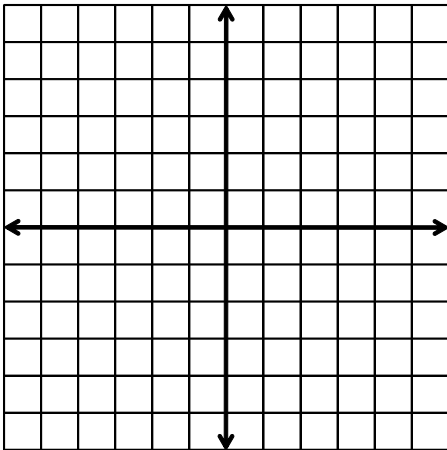
Solve Systems of Inequalities

- Graph _____ the inequalities on the _____ coordinate plane.
- Find the _____ of the _____ areas.

Graph an Inequality

- Pretend the inequality sign is = and _____ the line.
- Decide if the line is _____ or _____
 - Solid if _____
 - Dotted if _____
- _____
 - Pick a _____ point _____ on the line.
 - _____ the test point into the inequality
 - If this results in a _____ statement, then shade the side of the graph _____ the test point.
 - If the result is _____ a true statement, then shade the _____ side of the graph.
 - OR if solved for _____
 - $y >$ shade _____ the line.
 - $y <$ shade _____ the line.

$$\text{Solve } \begin{cases} x + y \geq 1 \\ -x + y \geq 1 \\ y \leq 2 \end{cases}$$



$$\text{Solve } \begin{cases} y \geq x^2 \\ y > x + 2 \end{cases}$$

