

Alg I 6.6 notes.notebook

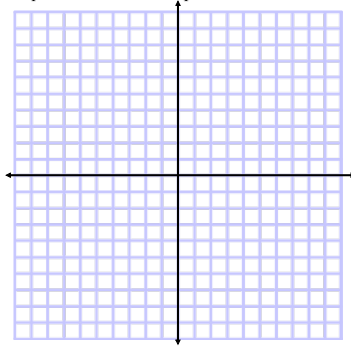
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Systems of Linear Inequalities

A *system of linear inequalities* is made up of two or more linear inequalities. A solution of a system of linear inequalities is an ordered pair that makes all the inequalities true. The graph of a system of linear inequalities is the set of points that represent all of the solutions of the system.

Graph the system.

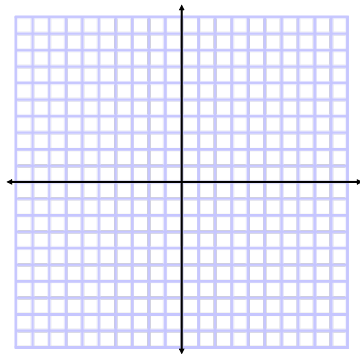
$$1) \begin{cases} y \geq 3x - 3 \\ y > -2x + 4 \end{cases}$$



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Graph the system.

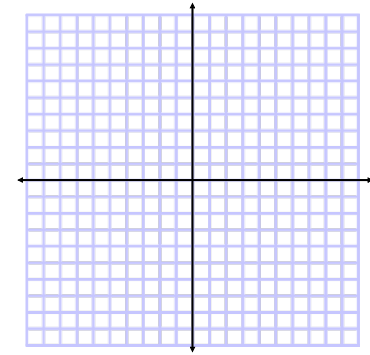
$$3) \begin{cases} y - 5 \leq \frac{1}{2}(x + 6) \\ y \geq -3x + 5 \end{cases}$$



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Graph the system.

$$2) \begin{cases} 2x - y > -6 \\ 3x + 4y \geq 12 \end{cases}$$



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4) Write the system of inequalities for the graph.

