

Name: _____

Date: _____

5.7 Systems of Linear Inequalities

Essential Question: _____

Systems of Linear Inequalities: _____

Tell whether each ordered pair is a solution of the system of linear inequalities.

$y < 2x$ Inequality 1

$y \geq x + 1$ Inequality 2

a. (3, 5)

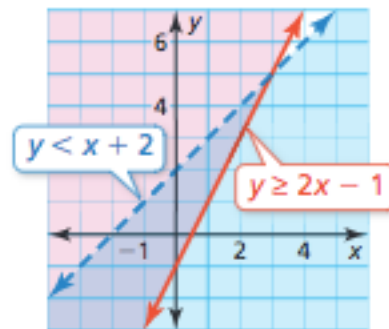
b. (-2, 0)

Core Concept

Graphing a System of Linear Inequalities

Step 1 Graph each inequality in the same coordinate plane.

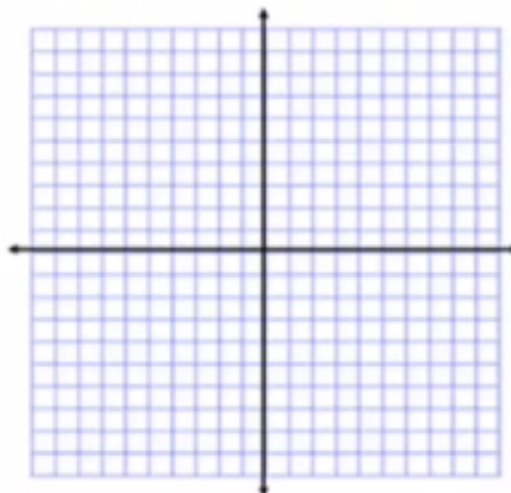
Step 2 Find the intersection of the half-planes that are solutions of the inequalities. This intersection is the graph of the system.



Graph the system of linear inequalities.

$y \leq 3$ Inequality 1

$y > x + 2$ Inequality 2



Graph the system of linear inequalities.

$2x + y < -1$ Inequality 1

$2x + y > 3$ Inequality 2

