Algebra I

Notes Section 6.6

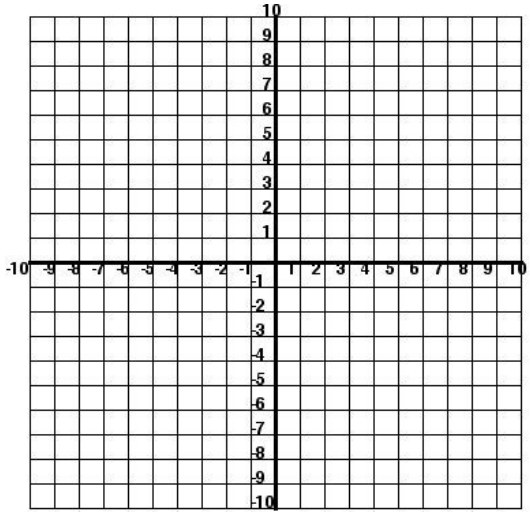
Solve Systems of Linear Inequalities

Big Ideas

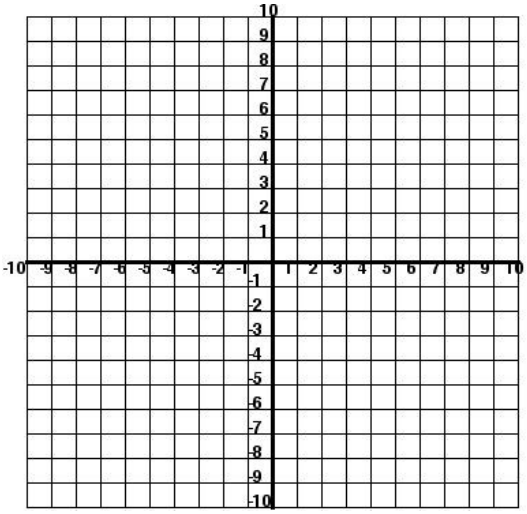
1. How to graph a system of inequalities and determine it's solutions.
2. How to determine a system of inequalities from a graph.

EXAMPLE 1 Graph the system of inequalities.

a) $y > -x - 2$
$y \leq 3x + 6$

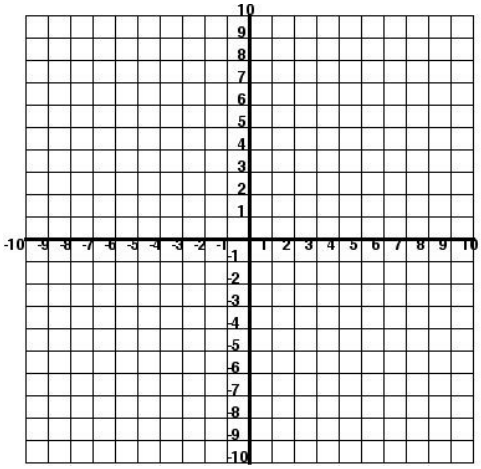


b) $y < 3x$
$y \geq -2x + 1$



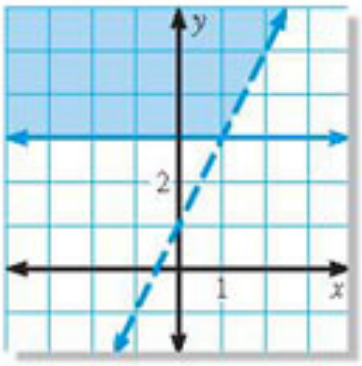
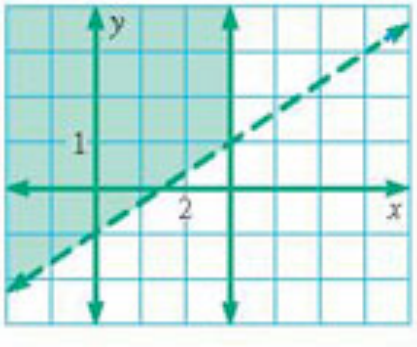
EXAMPLE 2 Graph the system of inequalities.

$y \geq -1$
$x > -2$
$x + 2y \leq 4$



EXAMPLE 3 Write a system of inequalities for the shaded region.

a)



b)