

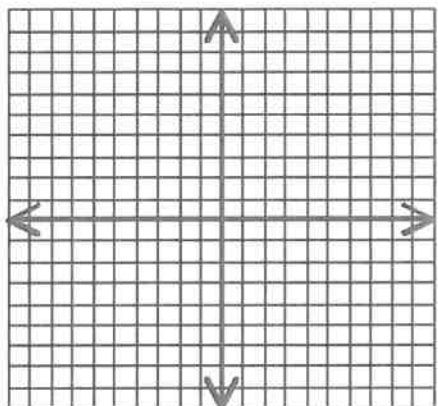
3.2 Graph Systems of Linear Inequalities

To Graph Systems of Inequalities:

1. Graph each inequality on the same coordinate plane. *Shade lightly!*
2. The solution is the *intersection* of the shaded regions.

Examples:

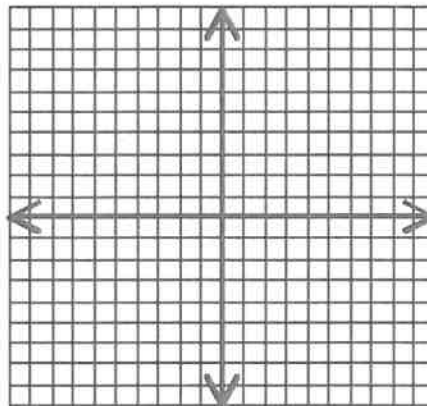
1. $x \geq 5$
 $x + y \leq 3$



Is (5, -2) a solution to the system?

Is (51, -96) a solution to the system?

2. $4x + 5y > -20$
 $4x + 5y > 10$

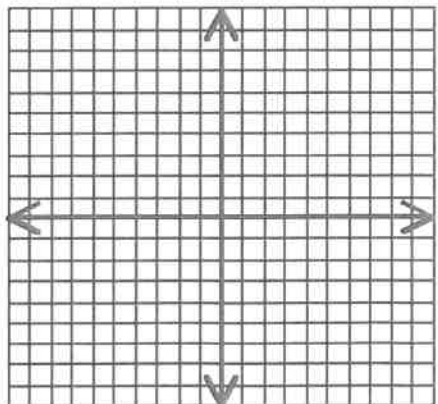


What would be the solution to:

$4x + 5y < -20$

$4x + 5y > 10$

3. $|y| \leq 3$
 $y > -|x| + 2$



4. $x - y \leq 7$
 $x + y < 7$
 $x > 2$

