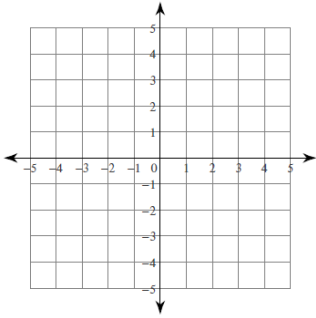


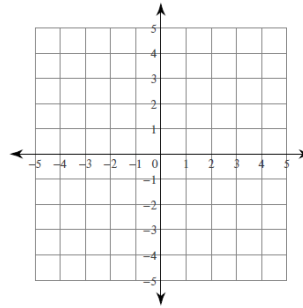
Systems of Inequalities

Sketch the solution to each system of inequalities.

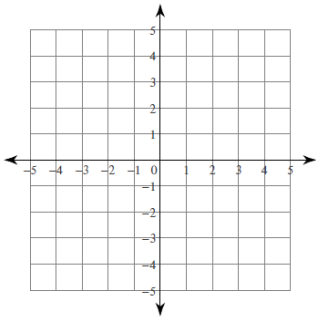
1) $y > 4x - 3$
 $y \geq -2x + 3$



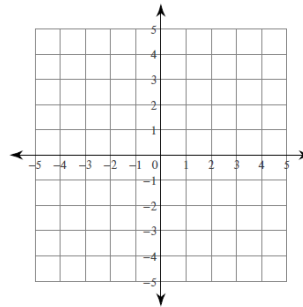
2) $y \geq -5x + 3$
 $y > -2$



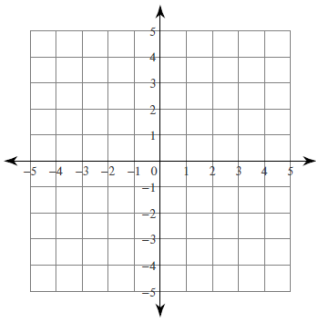
3) $y < 3$
 $y \leq -x + 1$



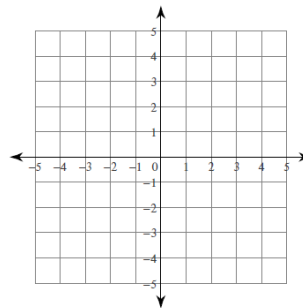
4) $y \geq x - 3$
 $y \geq -x - 1$



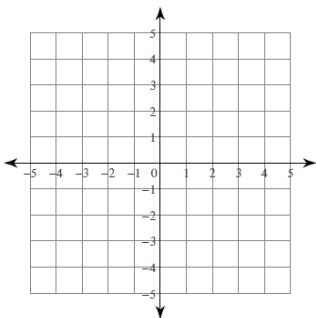
5) $y > x + 1$
 $x < -2$



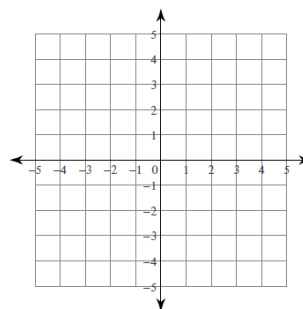
6) $y \leq -2x + 1$
 $x + y > -3$



7) $y \geq 1$
 $x < 4$

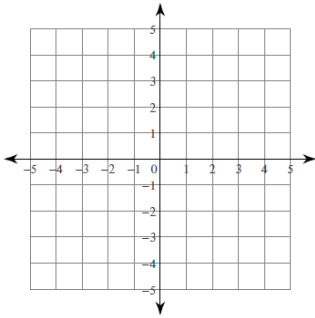


8) $x + 2y \leq -4$
 $x + y > 1$

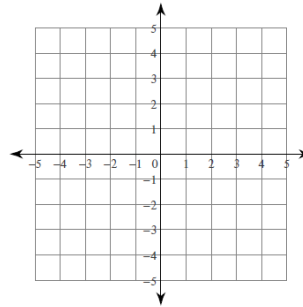


For the following problems, after graphing you should see a geometric shape! Pay attention to solid vs dotted lines.

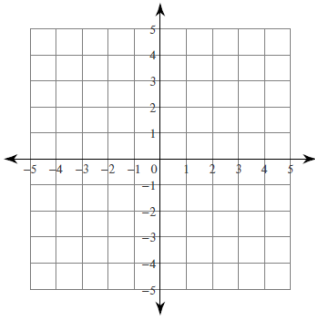
9) $y \geq -2$
 $x < 2$
 $y \leq 2$
 $x > -2$



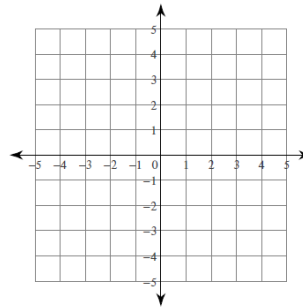
10) $y \geq -3$
 $x < 4$
 $y \leq 3$
 $x > -4$



11) $y \leq -2x + 2$
 $y \leq 2x + 2$
 $y > -3$

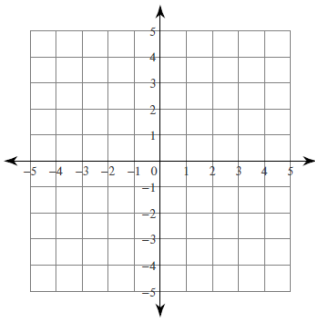


12) $y \leq x + 3$
 $y \geq x - 2$
 $y \leq 3$
 $y \geq -2$



13) $x \geq 2$
 $x > -2$

Be carefull and think.
No Shape.



14) $y < -3$
 $y \geq 3$

Think: What does
it mean if there is
no intersection!

