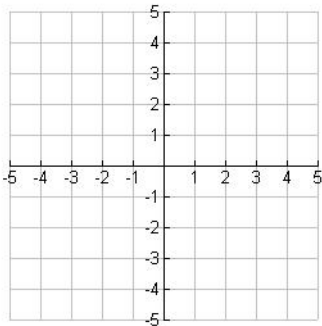


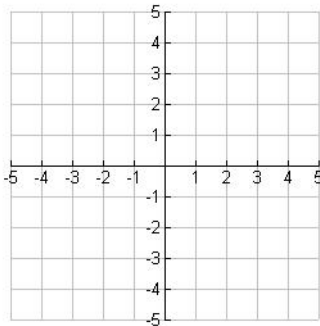
**Learning Targets:**

- Students will be able to solve systems of inequalities by graphing

Introduction Name three ordered pairs of numbers (points on a graph) that satisfy both of these conditions.



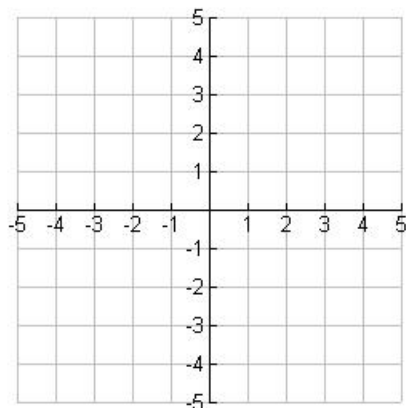
a.  $x > 4$   
 $y < 2$



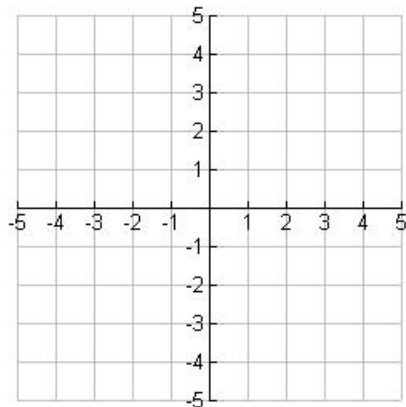
b.  $y < -1$   
 $x \leq 3$

c.  $y \leq 2x + 1$   
 $y > -\frac{1}{2}x + 3$

Solving Systems of Inequalities Graphically



Ex.  $y \leq 2x + 1$   
 $y > -\frac{1}{2}x + 3$



Ex.  $2x - y < 4$   
 $y + 3x \leq 1$