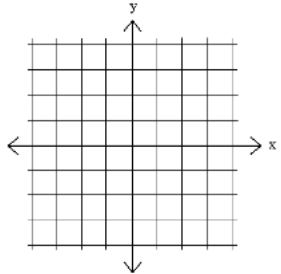
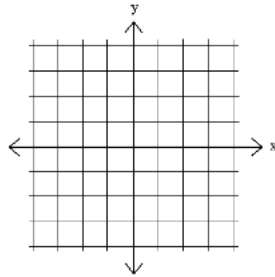


4.2.3 Notes: Linear Inequalities

$$y = 2x - 3$$



$$y > 2x - 3$$



Graphing Linear Inequalities is just like graphing lines except for 2 things

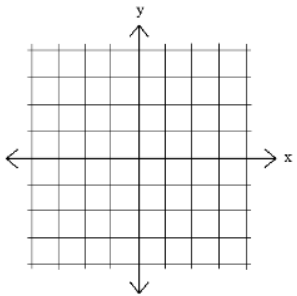
Are the values on the line apart of the solution set?

Where is the range of solutions?

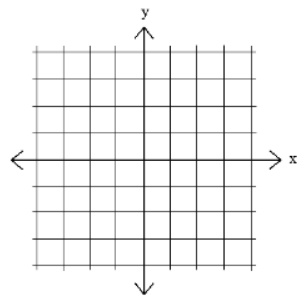
**Line**


**Shading**

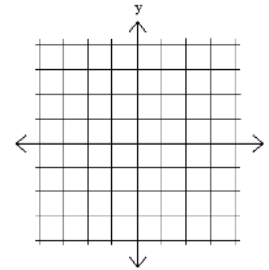

$$y > 2x - 3$$



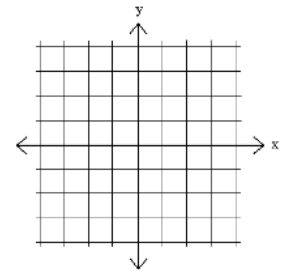
$$y \geq 2x - 3$$



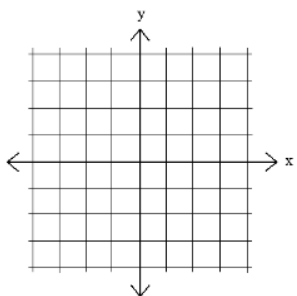
$$x \leq -2$$



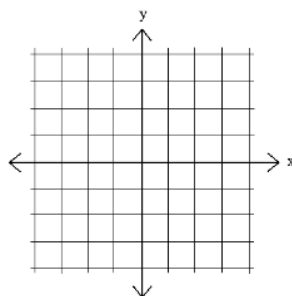
$$y > 1$$



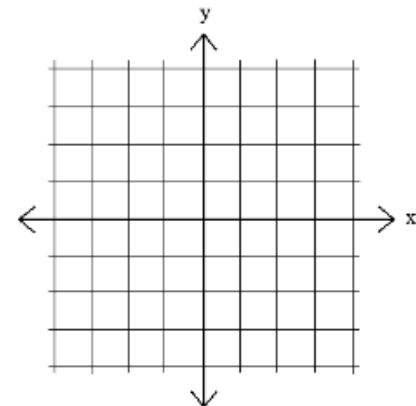
$$y < 2x - 3$$



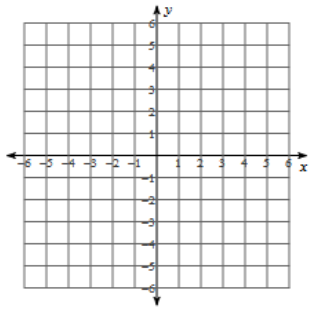
$$y \leq 2x - 3$$



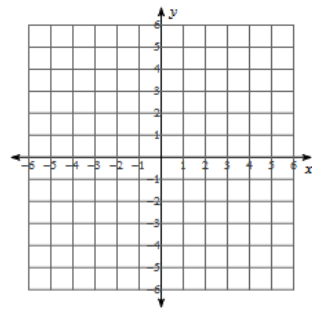
$$2 + x - 3y > 4x + 2$$



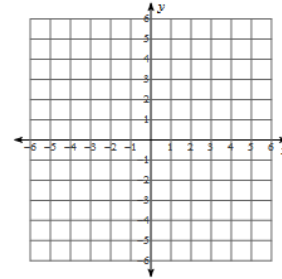
1)  $y \leq -3x - 1$



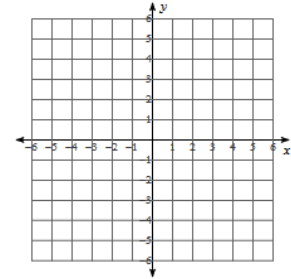
2)  $y < -\frac{1}{2}x + 2$



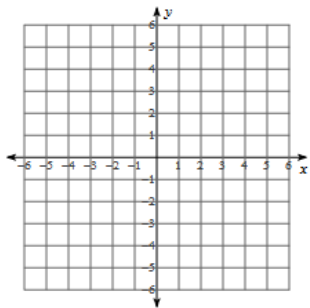
7)  $7x + y > -4$



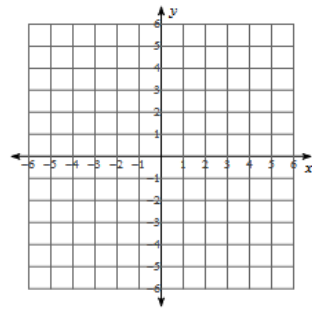
8)  $6x - y \geq 1$



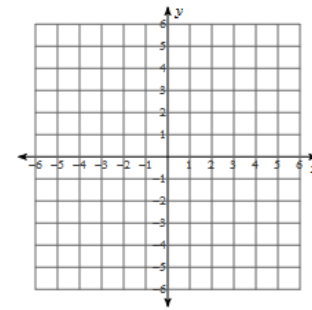
3)  $y > \frac{2}{5}x - 4$



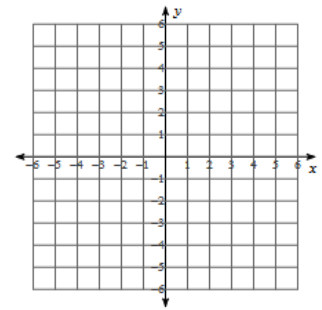
4)  $x > 4$



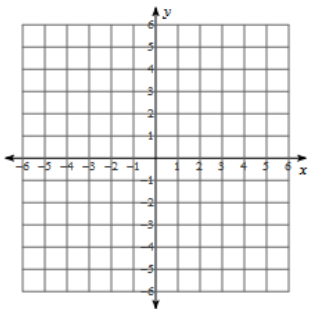
9)  $x - y \geq 0$



10)  $7x + 3y < 12$



5)  $y < -2x - 3$



6)  $y < 1$

