

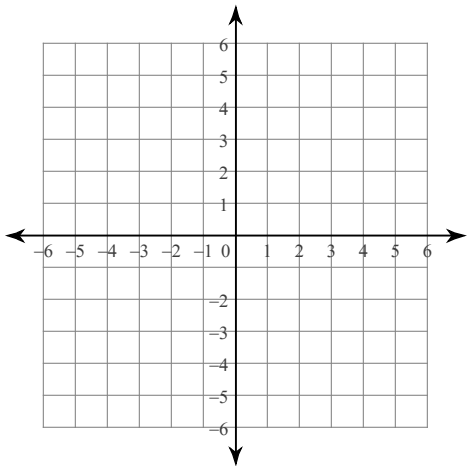
# Linear Inequalities and Systems of Inequalities

Period \_\_\_\_\_ Group \_\_\_\_\_

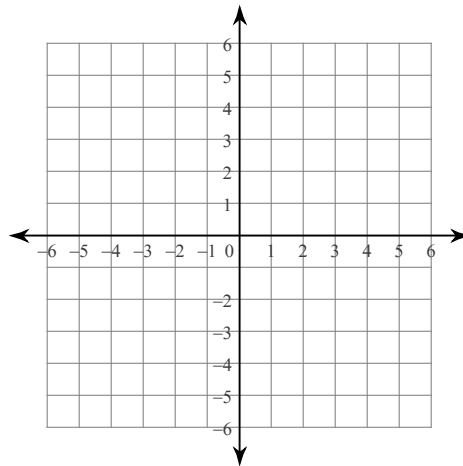
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**Sketch the graph of each linear inequality.**

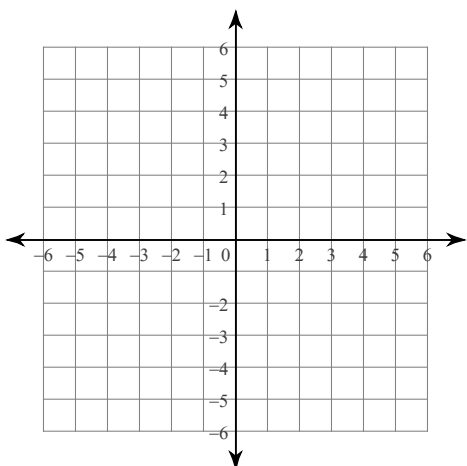
1)  $y > -3x + 3$



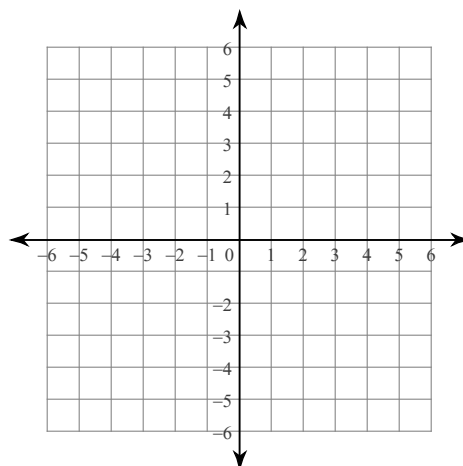
2)  $y < x + 1$



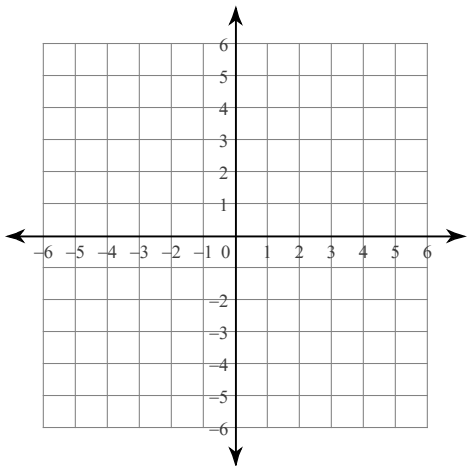
3)  $y > -\frac{1}{3}x + 4$



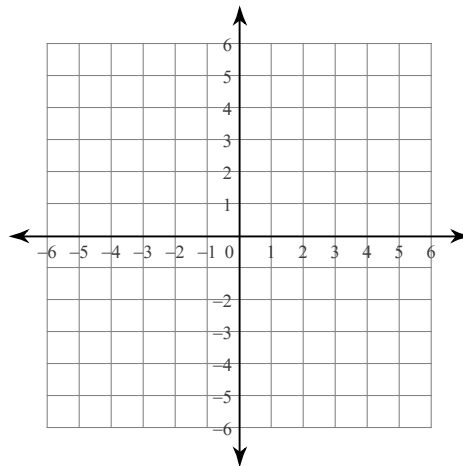
4)  $y \leq \frac{3}{4}x - 1$



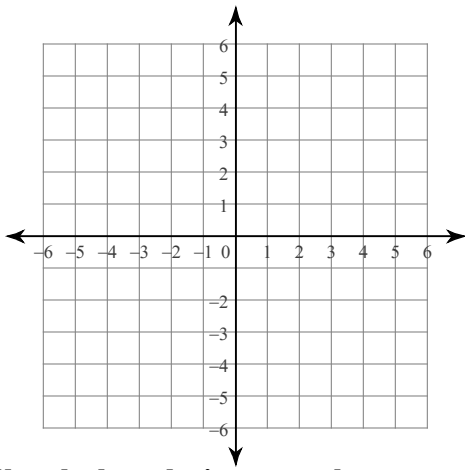
5)  $9x + y \leq -5$



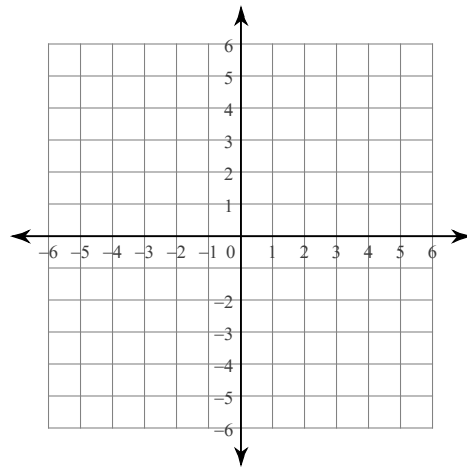
6)  $2x - y \leq 0$



7)  $7x + 4y < -12$



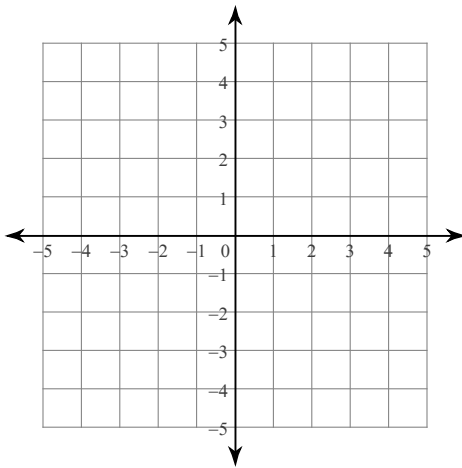
8)  $4x + 3y > -3$



Sketch the solution to each system of inequalities.

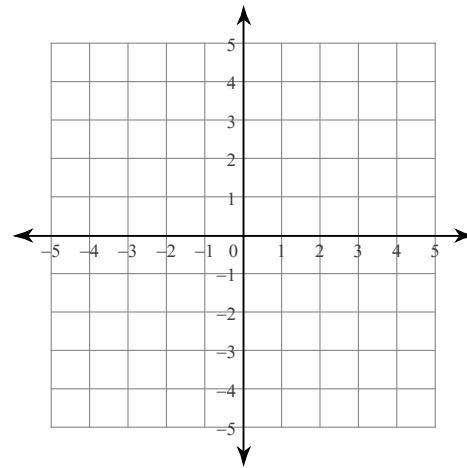
9)  $y \geq \frac{1}{2}x + 1$

$y \geq \frac{5}{2}x - 3$



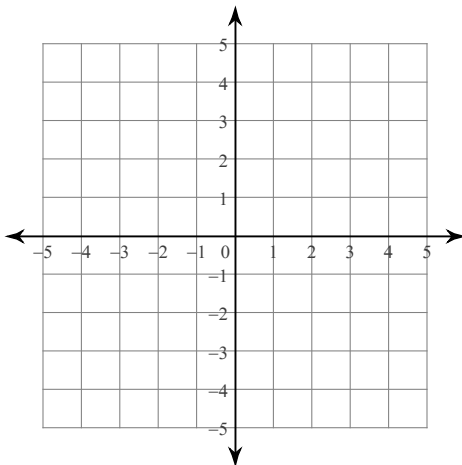
10)  $y > \frac{2}{3}x - 3$

$y \geq -\frac{2}{3}x + 1$

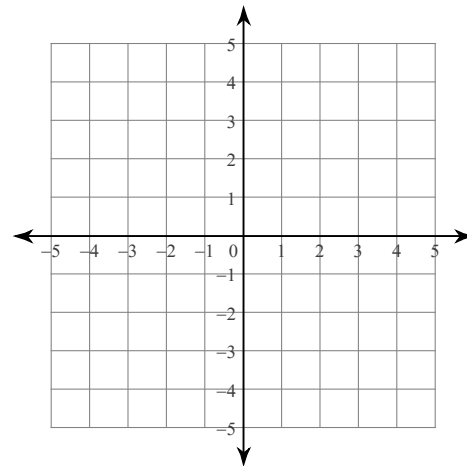


11)  $y \geq \frac{1}{3}x - 3$

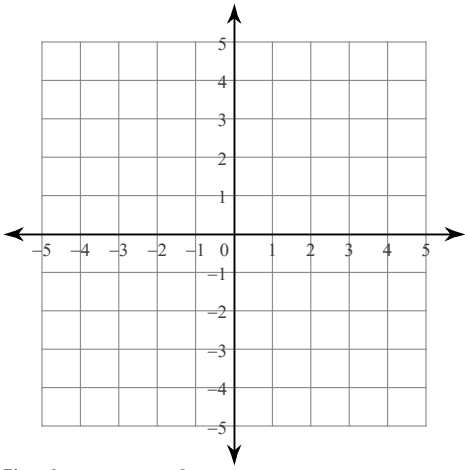
$y \geq -\frac{5}{3}x + 3$



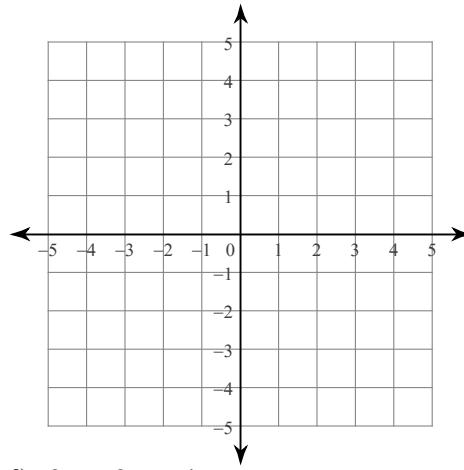
12)  $y \leq -x + 1$   
 $y \geq -5x - 3$



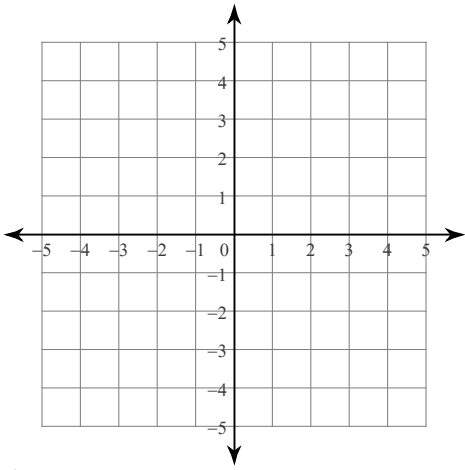
13)  $2x + y > -1$   
 $2x + y > 2$



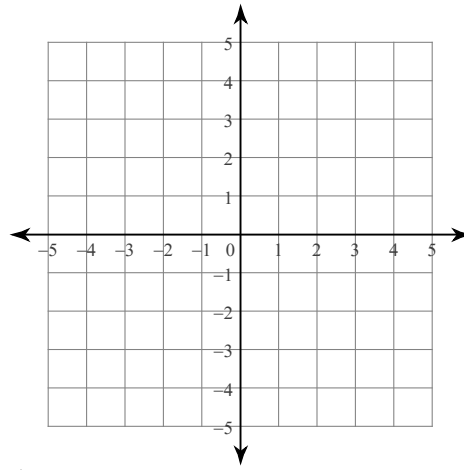
14)  $6x + y > -3$   
 $x + y \leq 2$



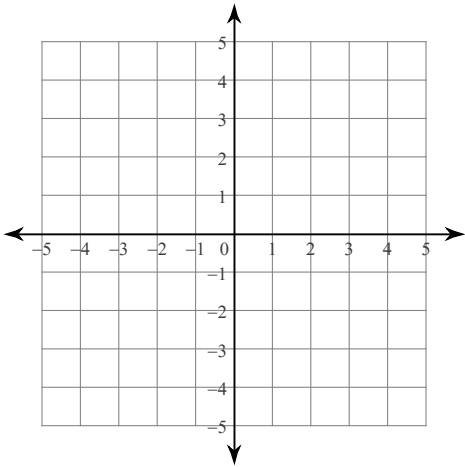
15)  $6x - y > -3$   
 $x - y \geq 2$



16)  $3x + 2y \geq 4$   
 $x - 2y \leq 4$



17)  $x - y \geq 2$   
 $4x - y \geq -1$



18)  $5x + 2y \leq -4$   
 $y \leq 3$

