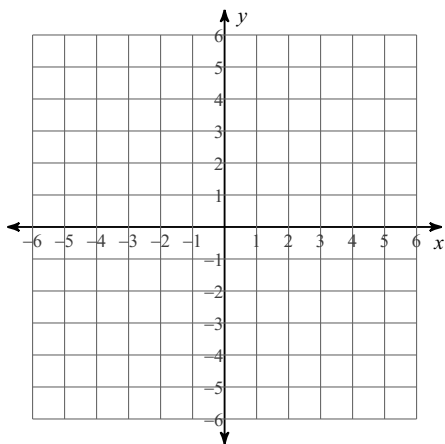


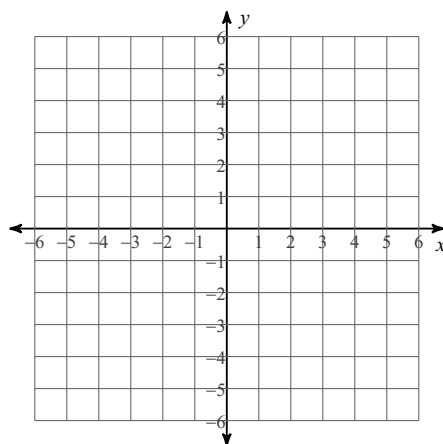
Graphing Linear Inequalities & Systems of Inequalities

CLASS EXAMPLES: Sketch the graph of each linear inequality.

1) $y \leq x - 1$

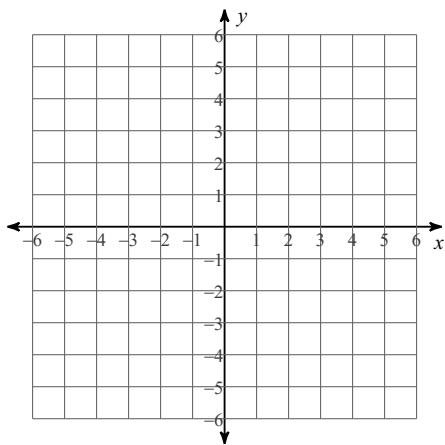


2) $y > -\frac{1}{3}x + 1$

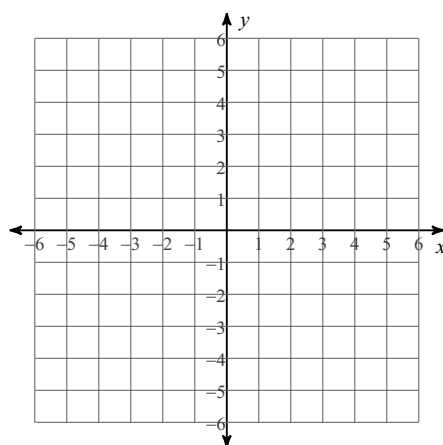


Sketch the graph of each linear inequality.

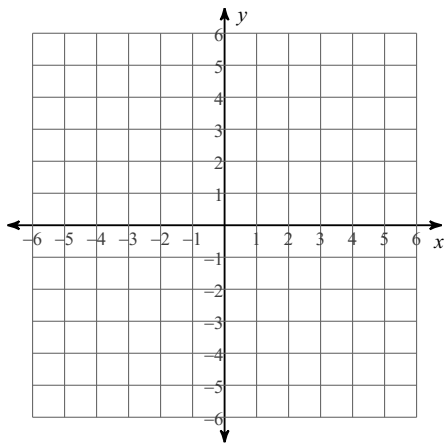
3) $y \geq -x - 5$



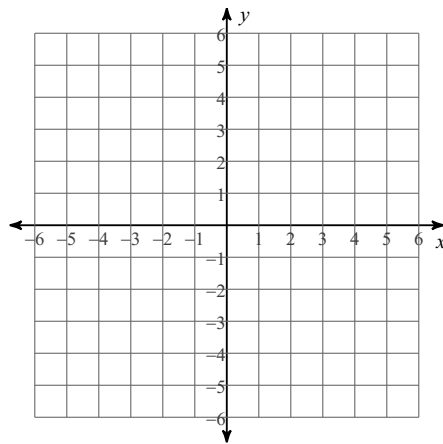
4) $y \leq \frac{9}{2}x + 4$



5) $y > -9x - 5$

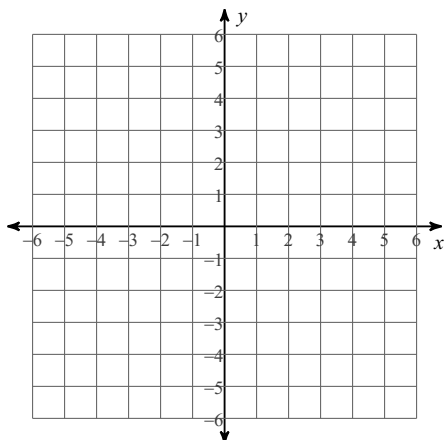


6) $y > 5x$

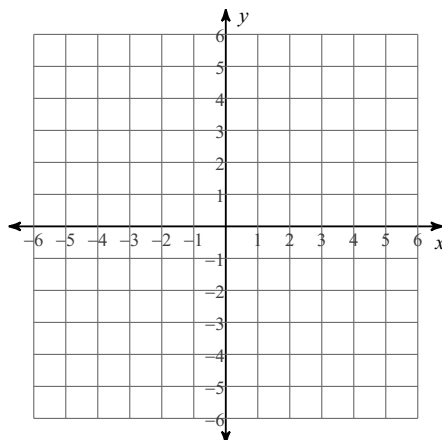


CLASS EXAMPLES: Sketch the graph of each linear inequality.

7) $x + 5y \geq -20$

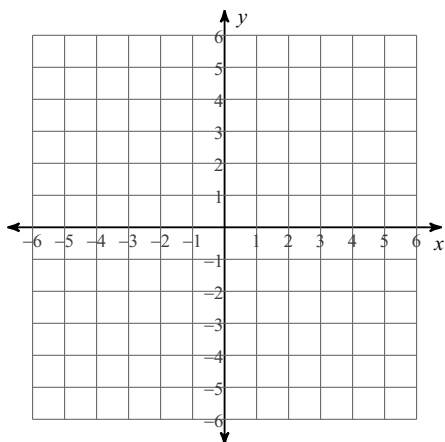


8) $2x - y > 4$

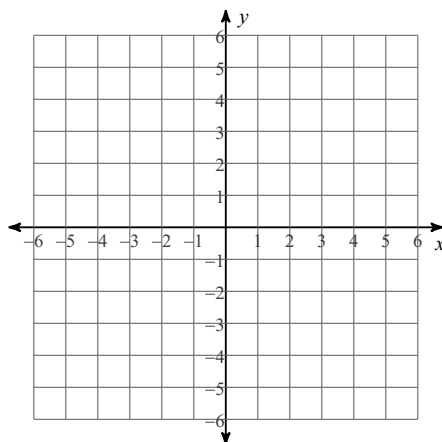


Sketch the graph of each linear inequality.

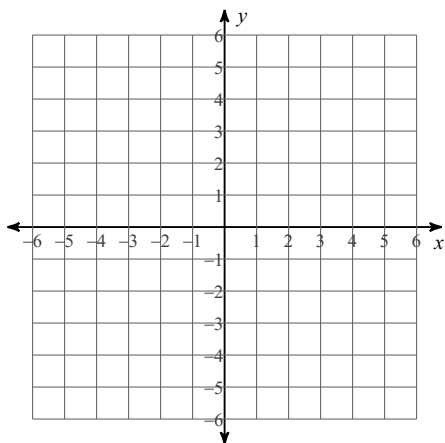
9) $3x + 4y \leq -12$



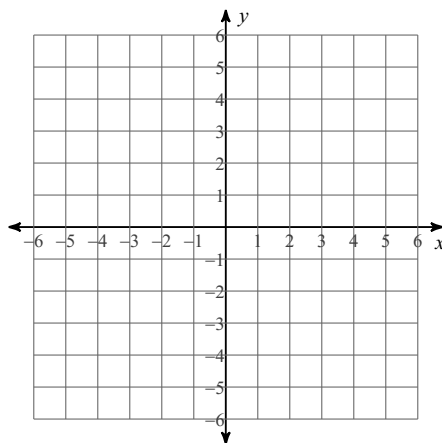
10) $3x - 4y \leq -4$



11) $x - 2y \geq 0$



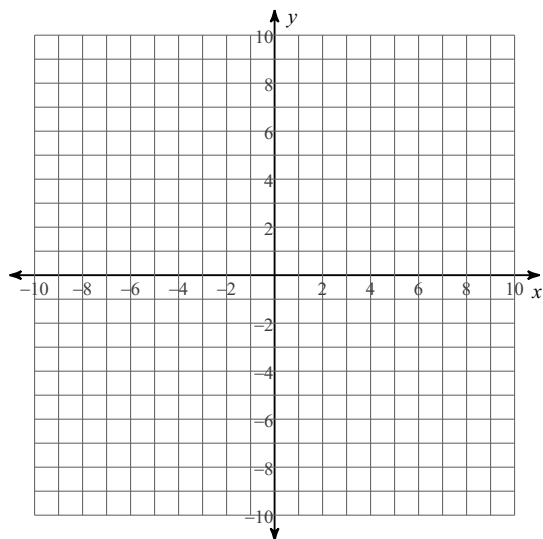
12) $x + y < 0$



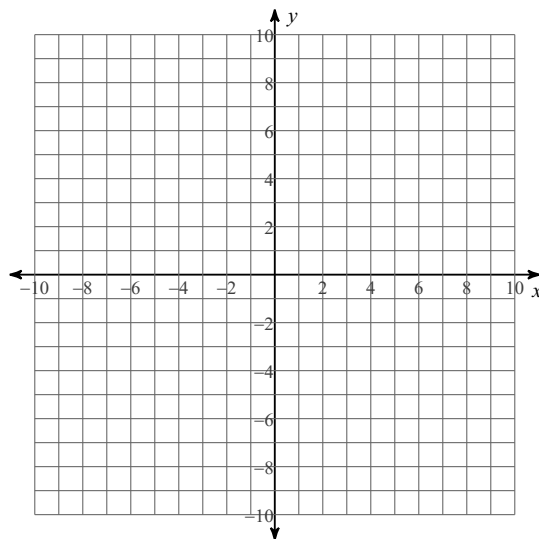
CLASS EXAMPLES: Sketch the solution to each system of inequalities.

13) $y > -\frac{7}{4}x - 7$

$y < -\frac{1}{8}x + 6$



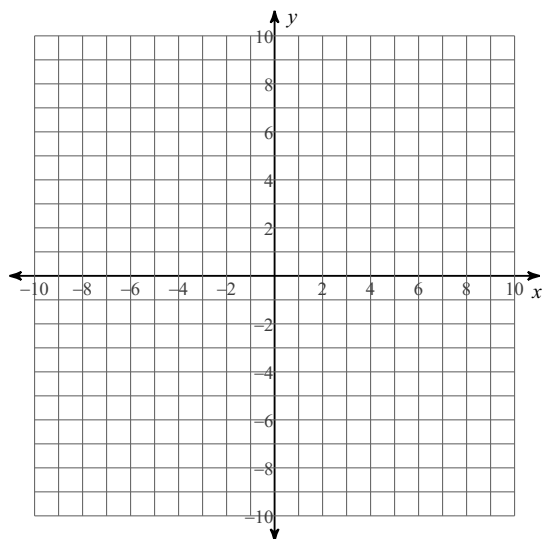
14) $y \leq x - 5$
 $y \leq x + 6$



Sketch the solution to each system of inequalities.

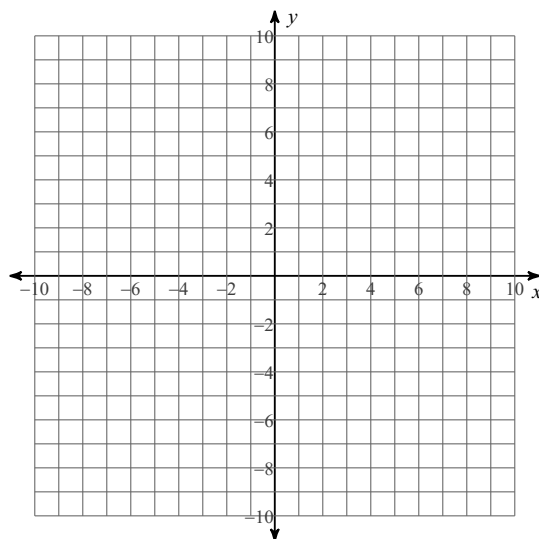
15) $y > 7x - 7$

$y > -\frac{1}{2}x + 8$



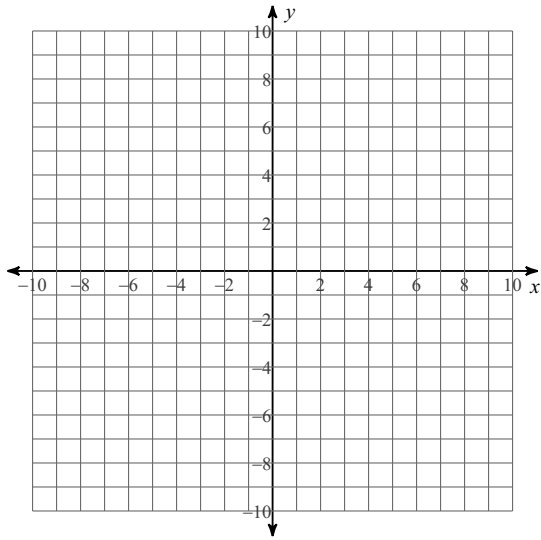
16) $y < -\frac{1}{8}x - 4$

$y \leq -x + 3$



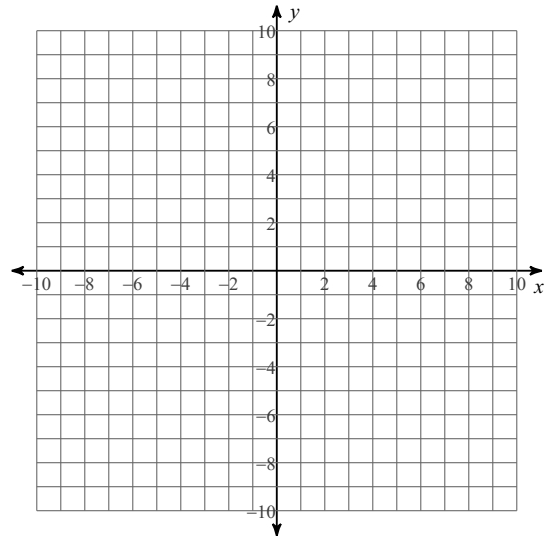
$$17) y < \frac{1}{2}x + 7$$

$$y \geq -\frac{5}{2}x + 1$$



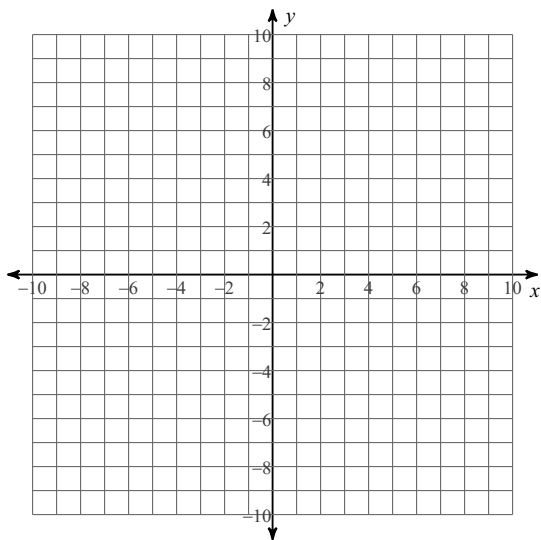
$$18) y > \frac{1}{5}x - 7$$

$$y \leq 3x + 7$$



$$19) y < x - 4$$

$$y \geq \frac{9}{2}x + 3$$



$$20) y < -\frac{3}{2}x - 8$$

$$y \leq -\frac{3}{2}x - 2$$

