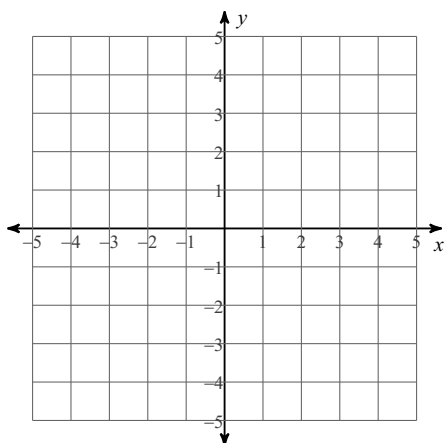


## 5.2 Systems of inequalities Graphing

Sketch the solution to each system of inequalities. if you must show your work somewhere else please attach the paper to this homework.

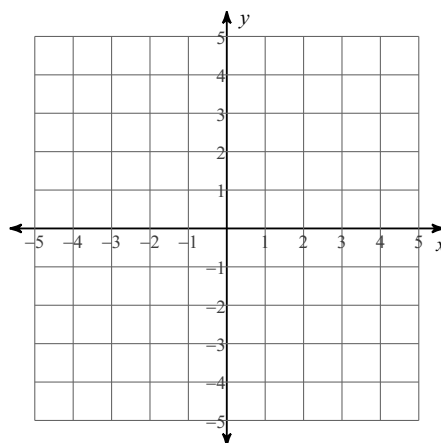
1)  $y > \frac{1}{2}x + 3$

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



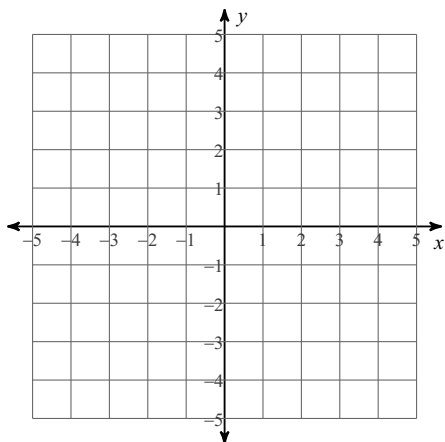
2)  $y \geq -\frac{2}{3}x - 3$

$y < -\frac{2}{3}x + 2$



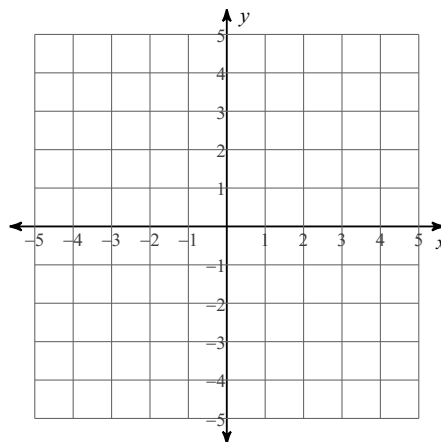
3)  $y < \frac{3}{2}x - 1$

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



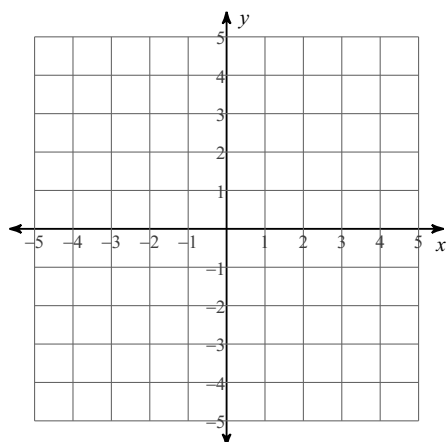
4)  $y \leq \frac{5}{3}x - 2$

$y \leq \frac{1}{3}x + 2$



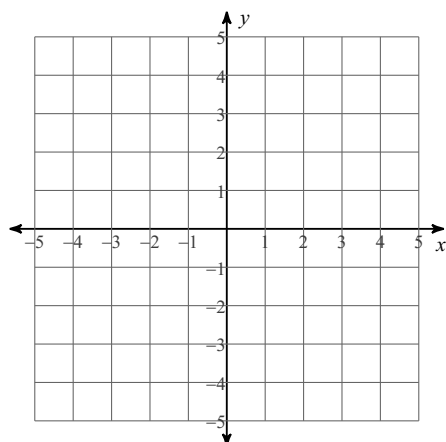
$$5) \ y > \frac{1}{3}x - 2$$

$$y \geq -x + 2$$



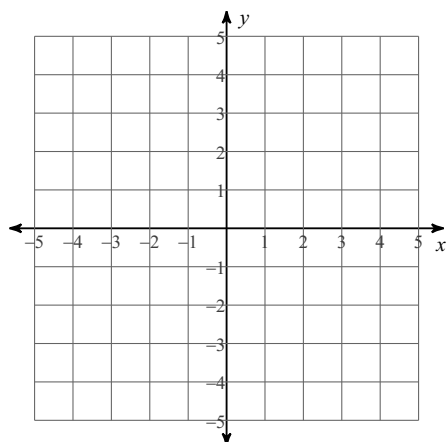
$$6) \ y \geq \frac{4}{3}x - 2$$

$$y > 2$$



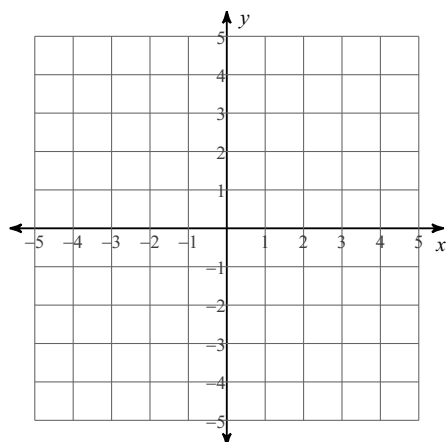
$$7) \ x - 2y \geq -6$$

$$5x + 2y \leq -6$$



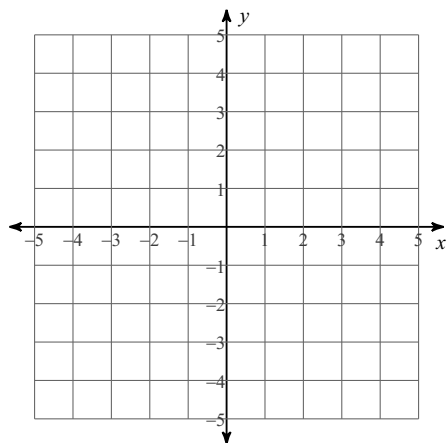
$$8) \ x + 2y \geq -4$$

$$x - y < -1$$



$$9) \ y < 3$$

$$5x - 2y \geq 4$$



$$10) \ 3x - 2y < -4$$

$$x + y > -3$$

