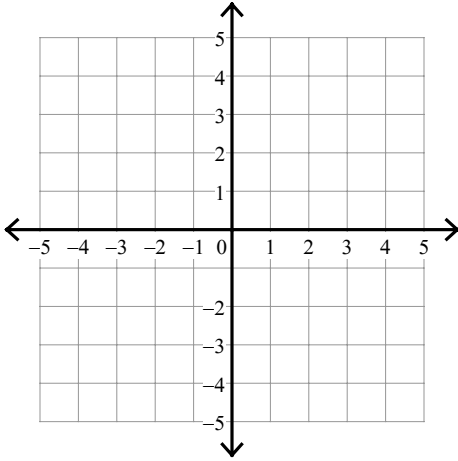


## HW7

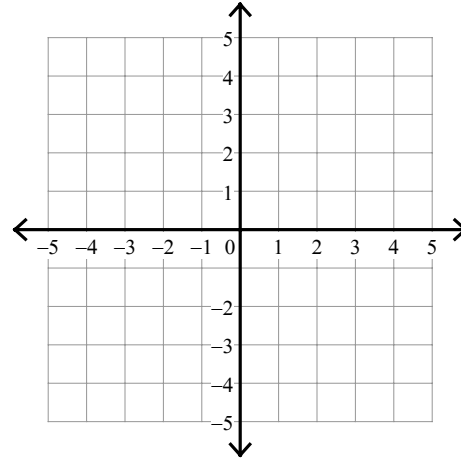
Date \_\_\_\_\_

Sketch the solution to each system of inequalities. Shade the area common to both.

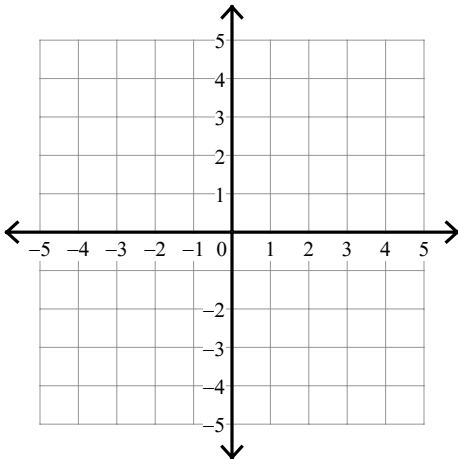
$$1) \begin{aligned} y &> -5x - 2 \\ y &< -x + 2 \end{aligned}$$



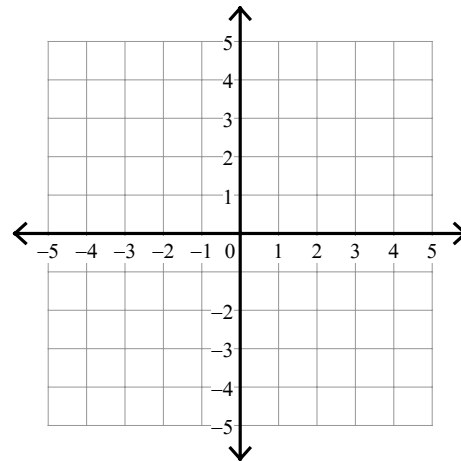
$$2) \begin{aligned} y &< 6x - 3 \\ y &< x + 2 \end{aligned}$$



$$3) \begin{aligned} y &> \frac{4}{3}x + 3 \\ y &\leq -\frac{2}{3}x - 3 \end{aligned}$$

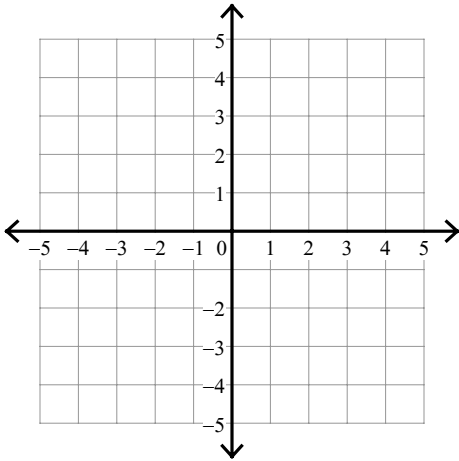


$$4) \begin{aligned} y &\leq -\frac{1}{3}x + 2 \\ y &\leq -2x - 3 \end{aligned}$$



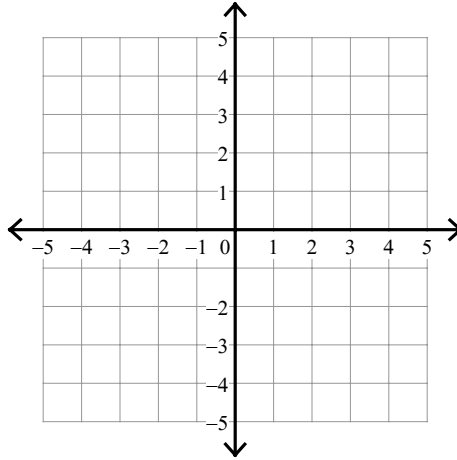
$$5) y < -\frac{5}{3}x - 2$$

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



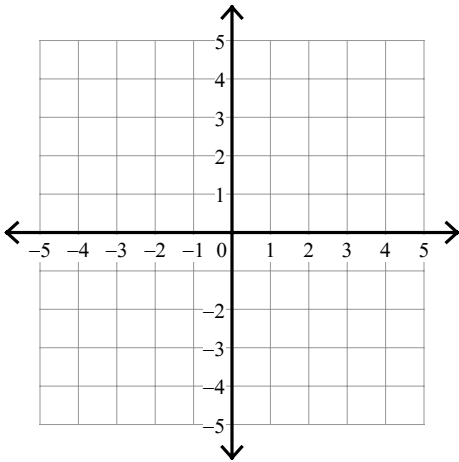
$$6) y < x + 2$$

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



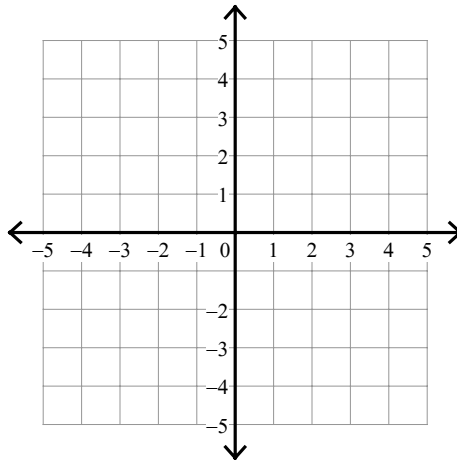
$$7) y \geq 6x + 3$$

$$y \geq x - 2$$



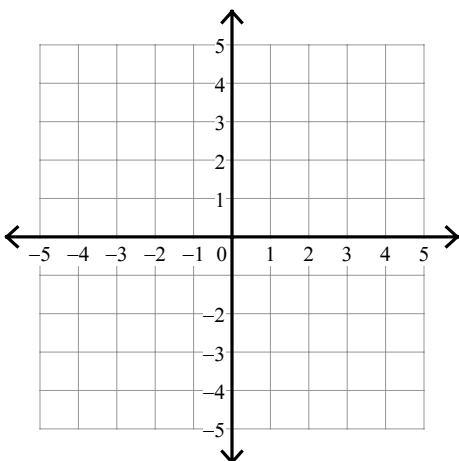
$$8) y \geq -3$$

$$y < 2x - 1$$



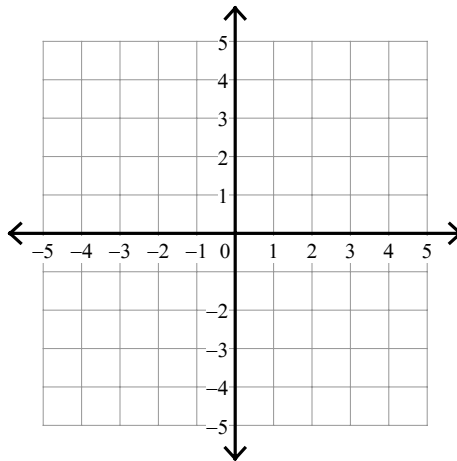
$$9) y \geq -\frac{1}{2}x - 2$$

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



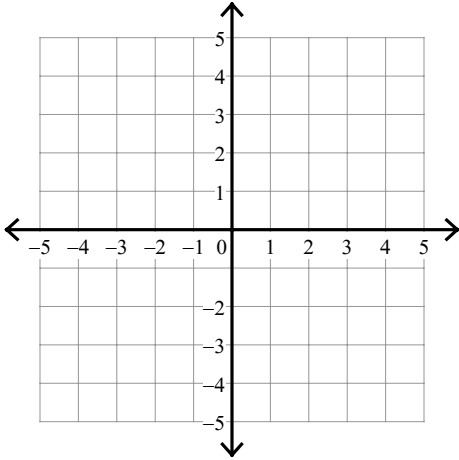
$$10) y > -\frac{1}{2}x - 2$$

$$y < -2x + 1$$



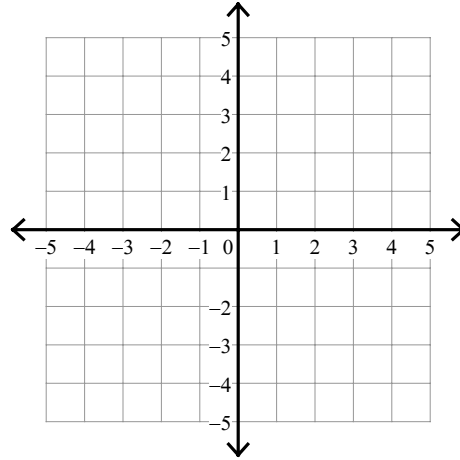
$$11) y \geq -x - 2$$

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



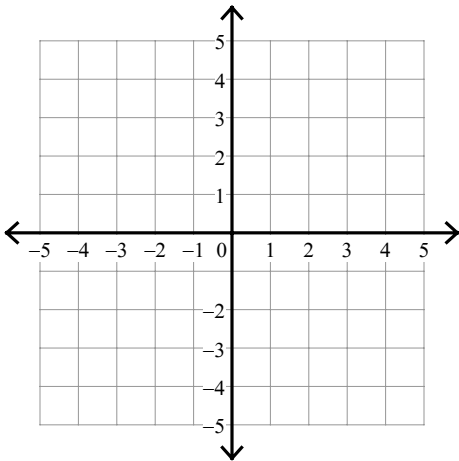
$$12) y > 2x + 1$$

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



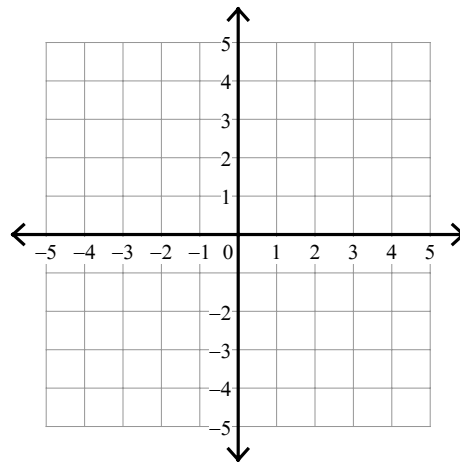
$$13) y \leq -x - 2$$

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



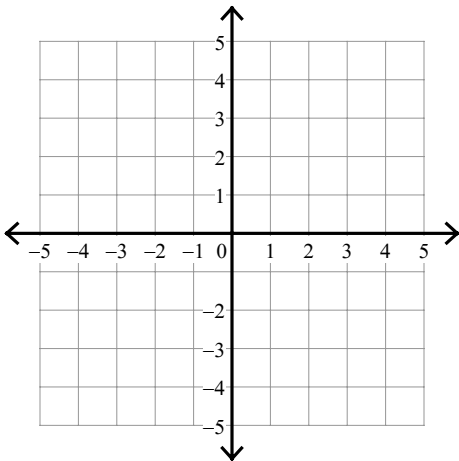
$$14) y < -2x + 1$$

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



$$15) y > \frac{5}{2}x - 2$$

$$y < 3$$



$$16) y \geq -\frac{3}{2}x - 1$$

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

