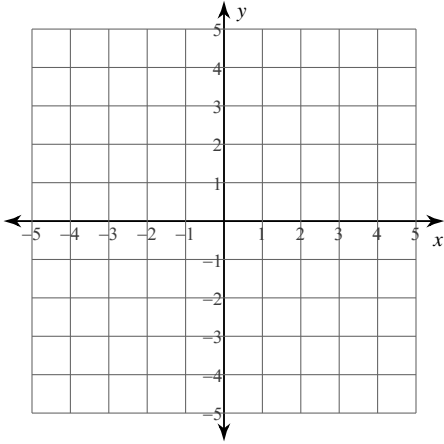


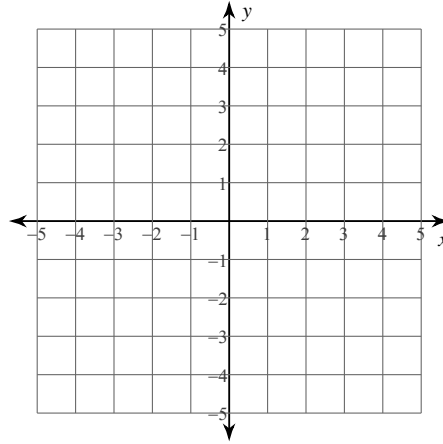
## Solving Systems of Inequalities

Sketch the solution to each system of inequalities.

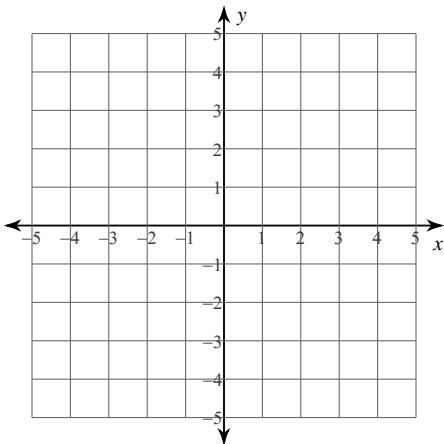
$$1) \begin{aligned} y &\leq -x - 2 \\ y &\geq -5x + 2 \end{aligned}$$



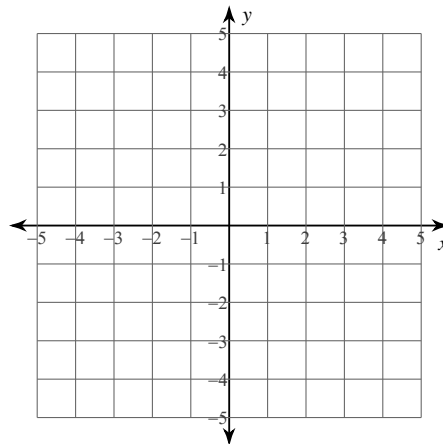
$$2) \begin{aligned} y &> -x - 2 \\ y &< -5x + 2 \end{aligned}$$



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

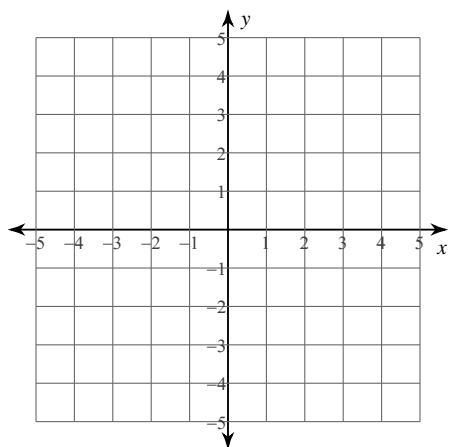


$$4) \begin{aligned} x &\leq -3 \\ y &< \frac{5}{3}x + 2 \end{aligned}$$



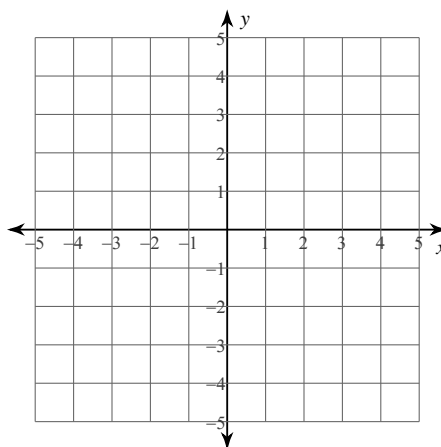
$$5) y \leq -\frac{5}{2}x - 2$$

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



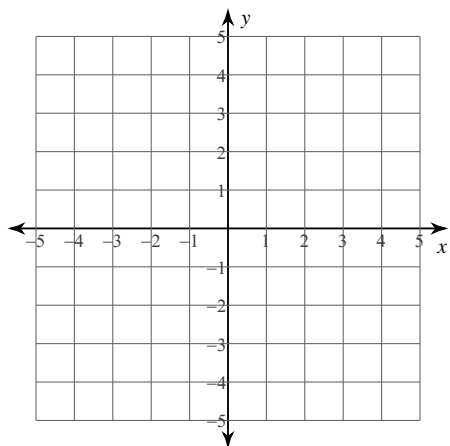
$$6) y \geq \frac{2}{3}x + 3$$

$$y > -\frac{4}{3}x - 3$$



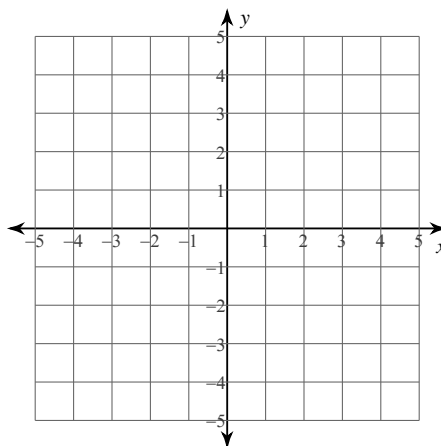
$$7) 4x + y < 2$$

$$y > -2$$



$$8) 3x + 2y \geq -2$$

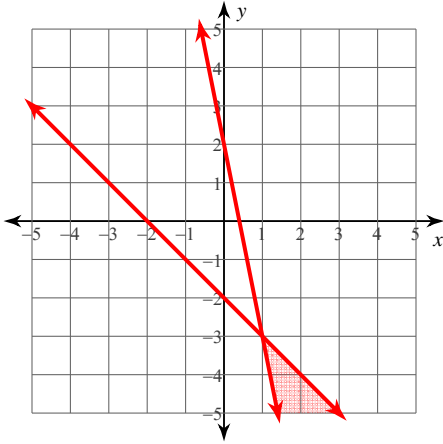
$$x + 2y \leq 2$$



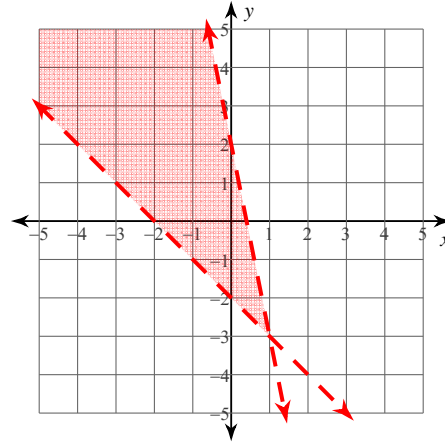
## Solving Systems of Inequalities

Sketch the solution to each system of inequalities.

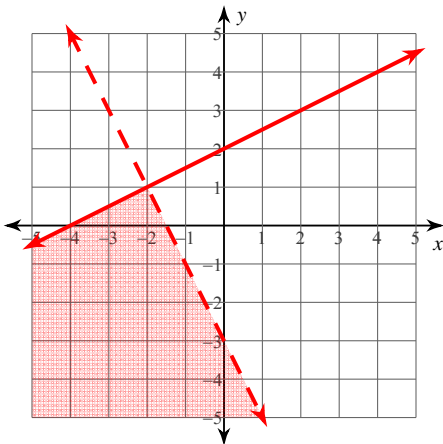
$$1) \begin{aligned} y &\leq -x - 2 \\ y &\geq -5x + 2 \end{aligned}$$



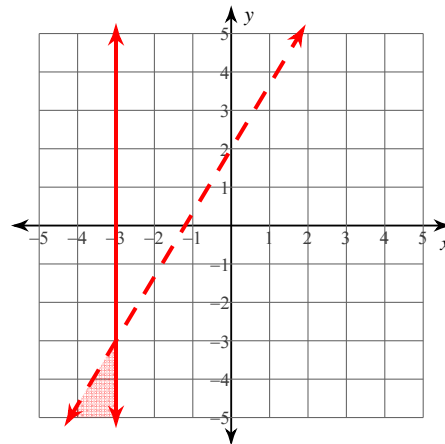
$$2) \begin{aligned} y &> -x - 2 \\ y &< -5x + 2 \end{aligned}$$



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

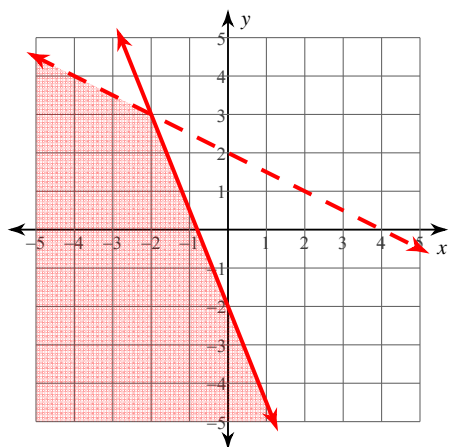


$$4) \begin{aligned} x &\leq -3 \\ y &< \frac{5}{3}x + 2 \end{aligned}$$



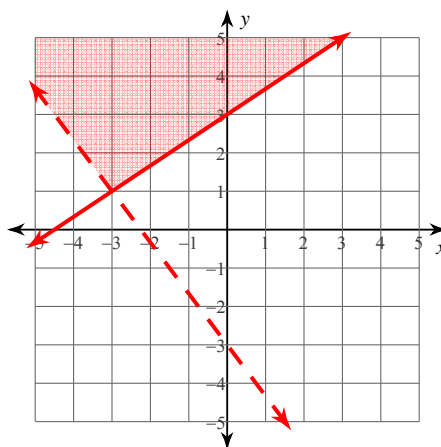
$$5) y \leq -\frac{5}{2}x - 2$$

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



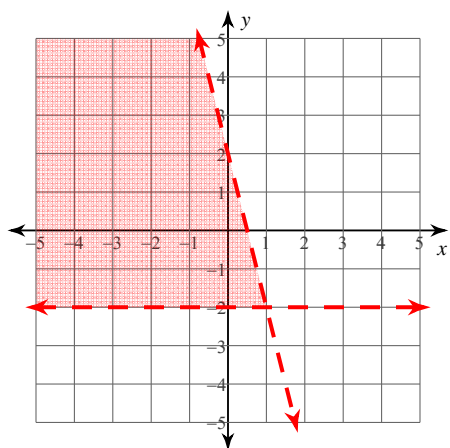
$$6) y \geq \frac{2}{3}x + 3$$

$$y > -\frac{4}{3}x - 3$$



$$7) 4x + y < 2$$

$$y > -2$$



$$8) 3x + 2y \geq -2$$

$$x + 2y \leq 2$$

