

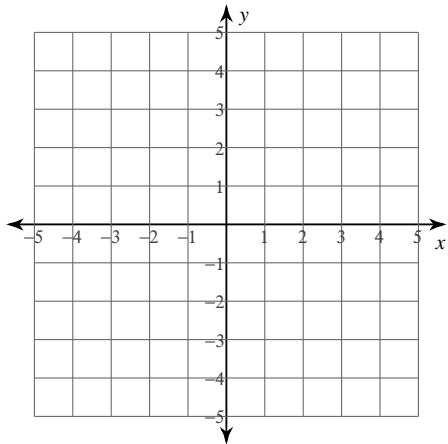
## Systems of inequalities

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**Sketch the solution to each system of inequalities, the solution must be shaded.**

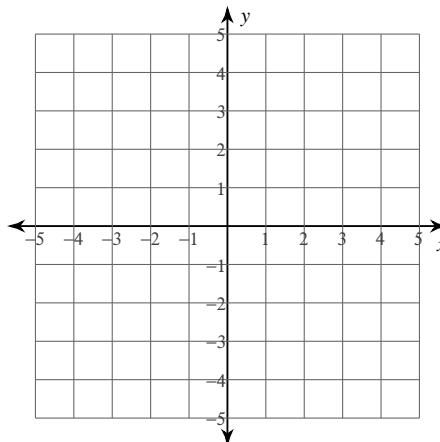
1)  $x < -2$

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



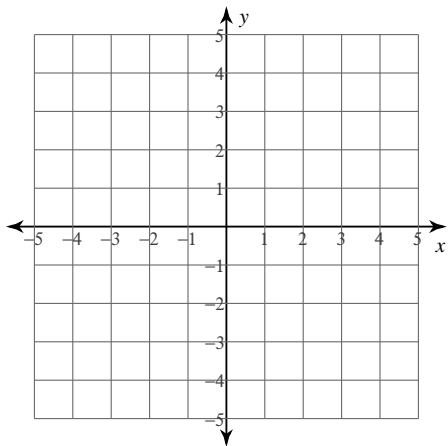
2)  $y \leq \frac{4}{3}x + 3$

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



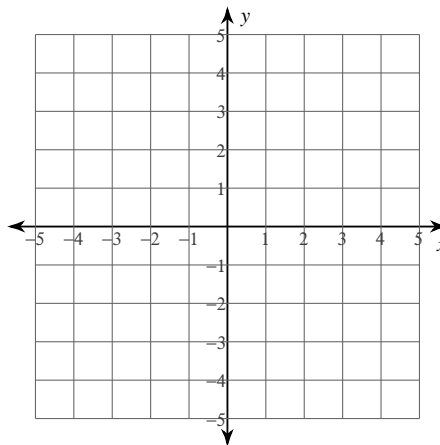
3)  $y \geq \frac{2}{3}x - 1$

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

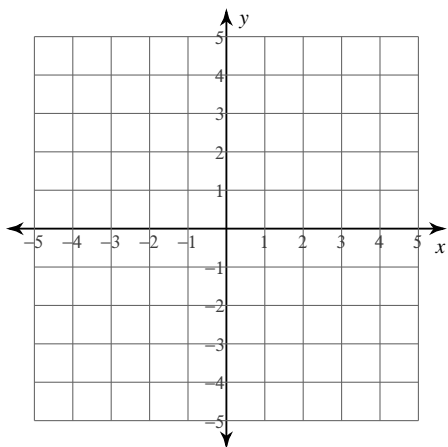


4)  $y < -6x + 3$

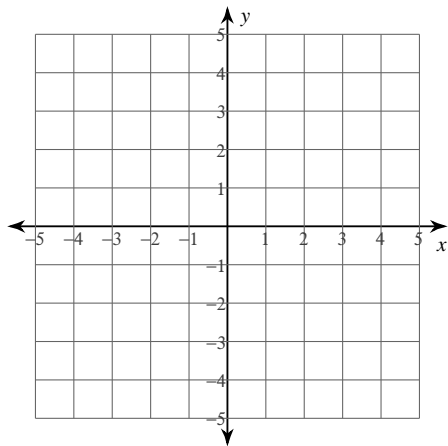
$$y \geq -6x - 2$$



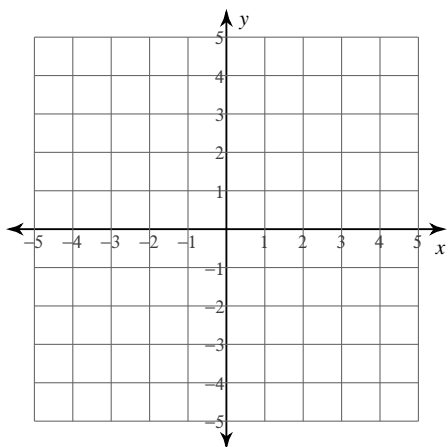
$$5) \begin{aligned} y &> x - 2 \\ y &< 6x + 3 \end{aligned}$$



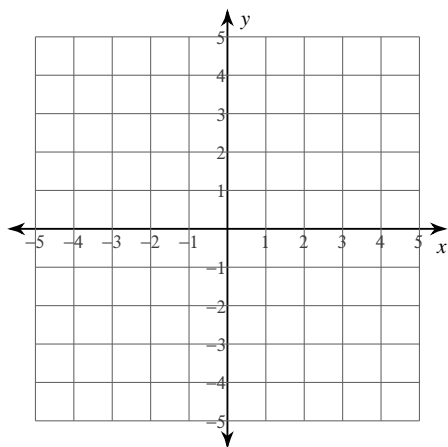
$$6) \begin{aligned} y &> -\frac{1}{3}x + 3 \\ y &< x - 1 \end{aligned}$$



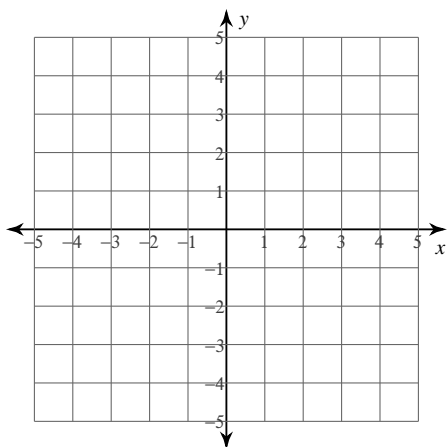
$$7) \begin{aligned} y &> -2x - 3 \\ y &\geq -\frac{2}{3}x + 1 \end{aligned}$$



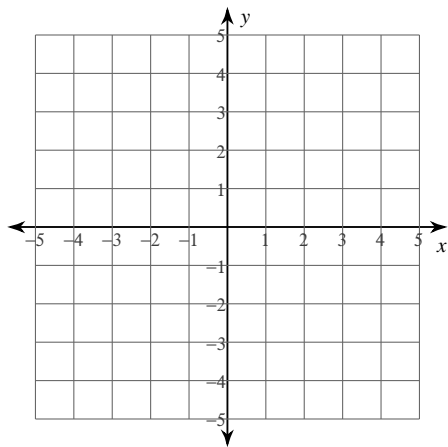
$$8) \begin{aligned} y &> \frac{5}{2}x + 3 \\ y &\geq \frac{1}{2}x - 1 \end{aligned}$$



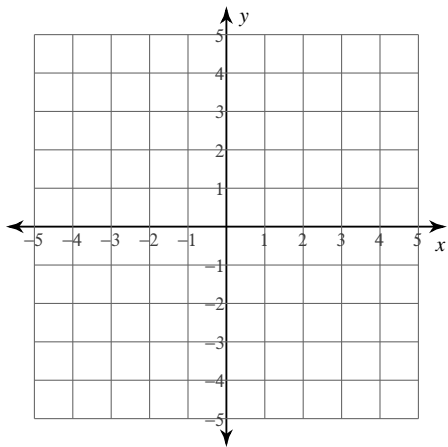
$$9) \begin{aligned} y &\leq \frac{3}{2}x - 2 \\ y &< -\frac{1}{2}x + 2 \end{aligned}$$



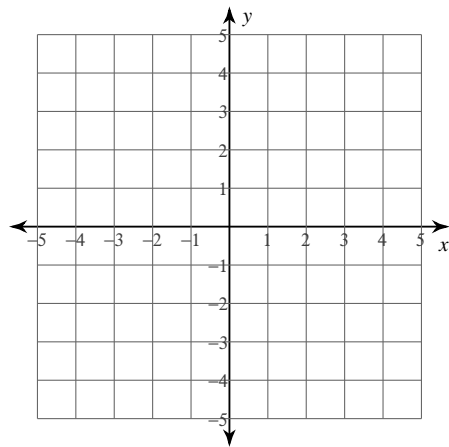
$$10) \begin{aligned} y &\geq -3x + 2 \\ y &> 2x - 3 \end{aligned}$$



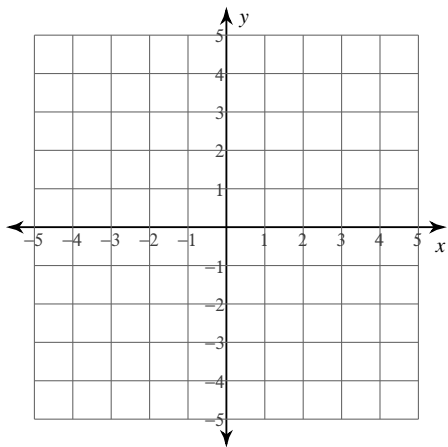
$$11) \begin{aligned} y &\leq 3 \\ y &> 6x - 3 \end{aligned}$$



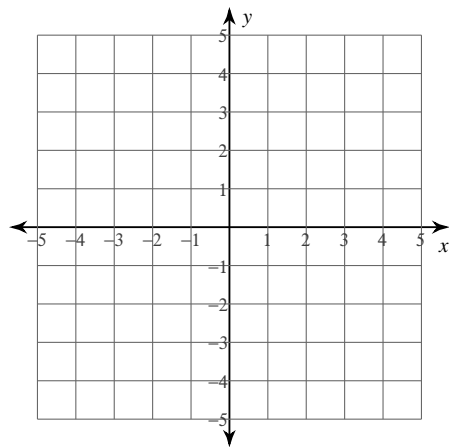
$$12) \begin{aligned} y &> -x + 1 \\ y &< -x - 1 \end{aligned}$$



$$13) \begin{aligned} y &\leq \frac{5}{2}x - 3 \\ y &\geq \frac{1}{2}x + 1 \end{aligned}$$



$$14) \begin{aligned} y &\leq -\frac{4}{3}x + 1 \\ y &\leq -\frac{1}{3}x - 2 \end{aligned}$$



$$15) \begin{aligned} y &\leq -\frac{1}{3}x + 3 \\ y &\leq x - 1 \end{aligned}$$

