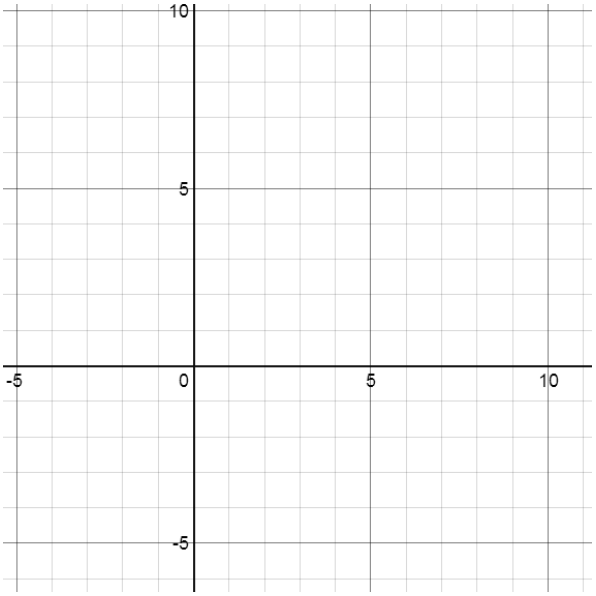
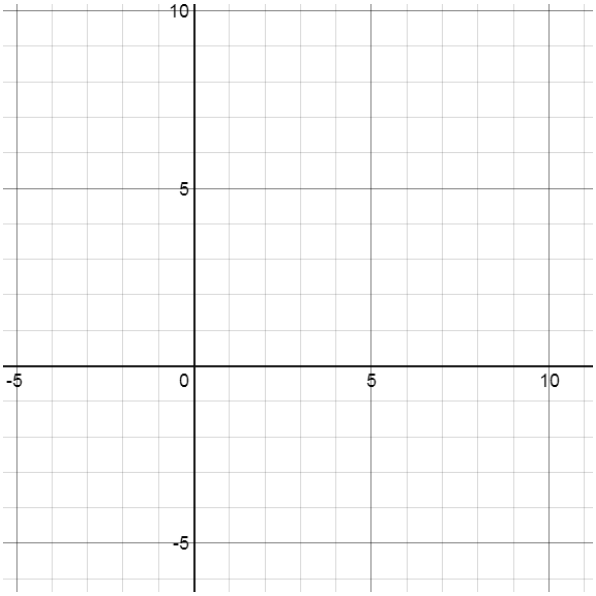
Graphing Inequalities

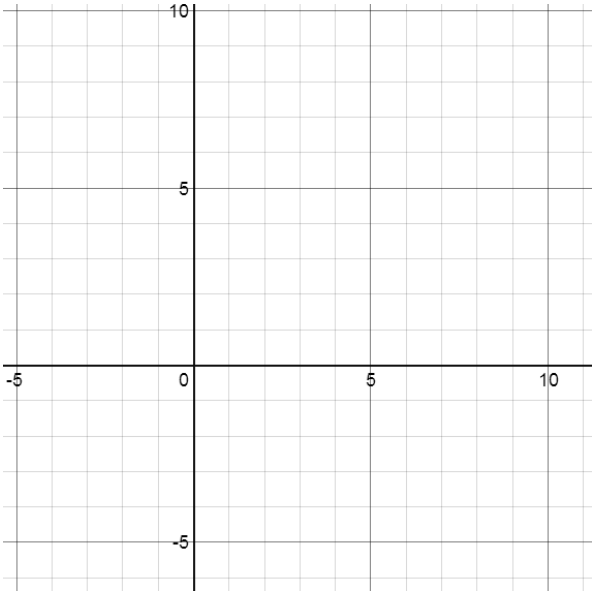
Plot the following inequalities on the given axes. Leave the required region UNSHADED.



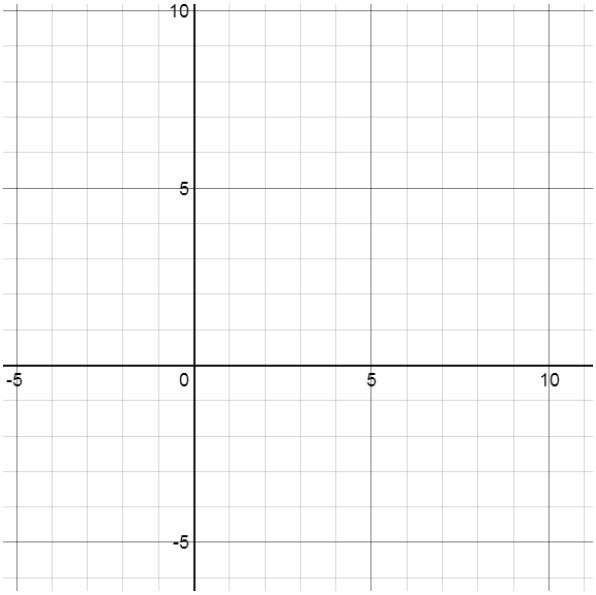
$x > 2, \quad y \leq 4$



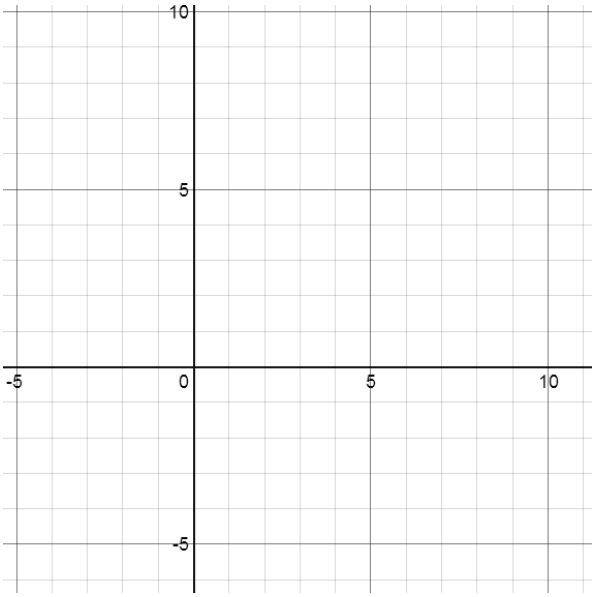
$-2 \leq x \leq 6, \quad -3 < y < 8$



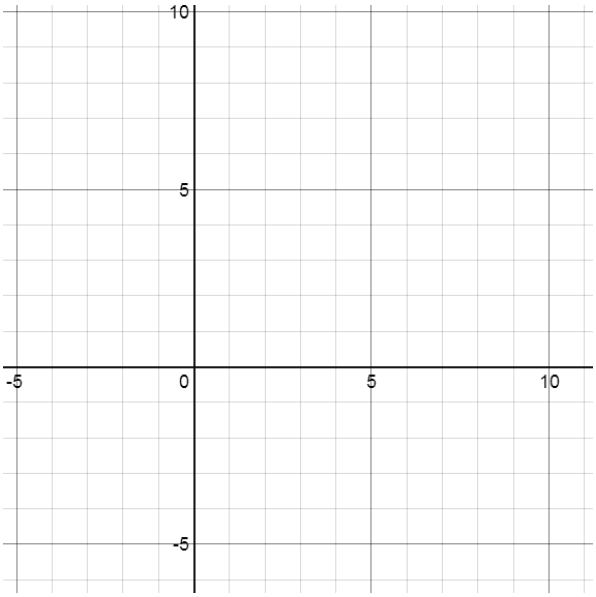
$y < x, \quad x < 5, \quad y \geq 0$



$x \geq 0, \quad y \geq -1, \quad x + y < 7$



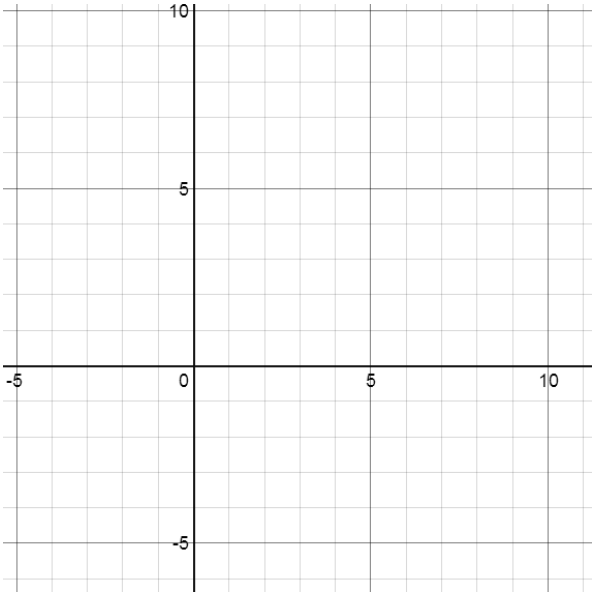
$x + y \leq 7, \quad y \geq x$



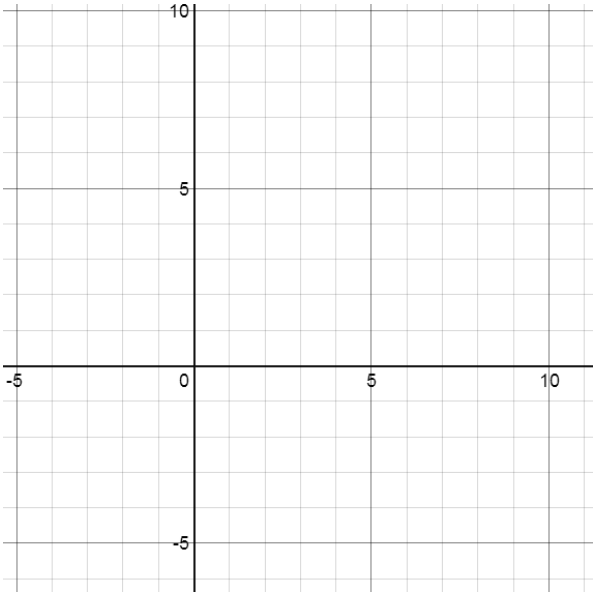
$-3 \leq x < 8, \quad y \leq x, \quad y > x - 5$

Graphing Inequalities AMBER

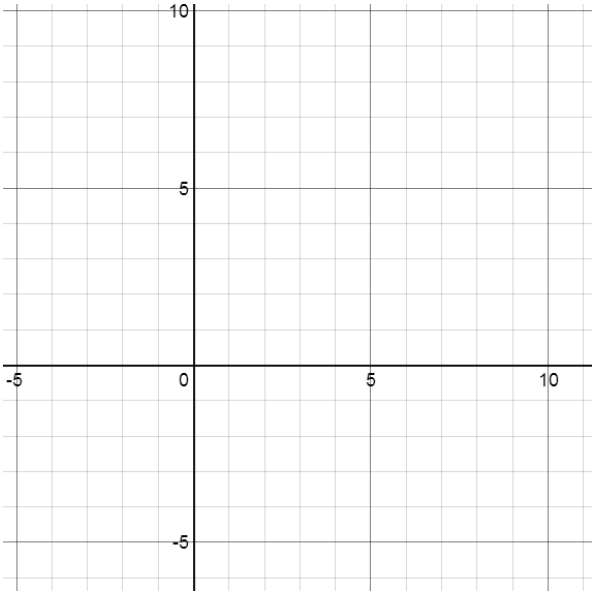
Plot the following inequalities on the given axes. Leave the required region UNSHADED.



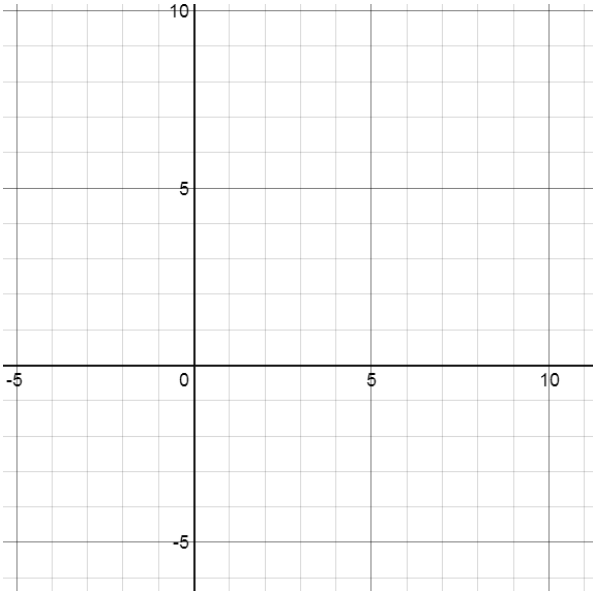
$x > 2, \quad y \leq 4$



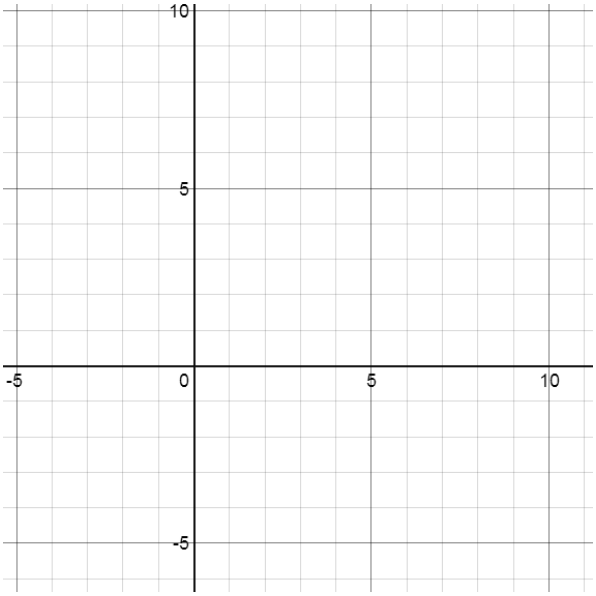
$-2 \leq x \leq 6, \quad -3 < y < 8$



$y < x, \quad x < 5, \quad y \geq 0$



$x \geq 0, \quad y \geq -1, \quad x + y < 7$



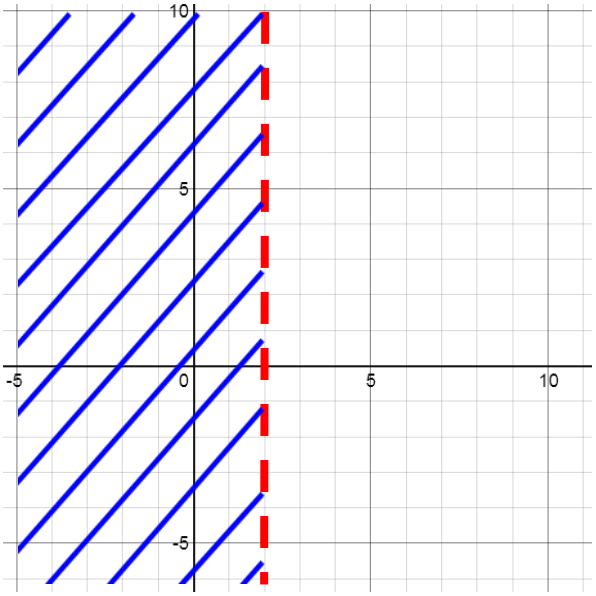
$x + y \leq 7, \quad y \geq x$

Step by step guide:

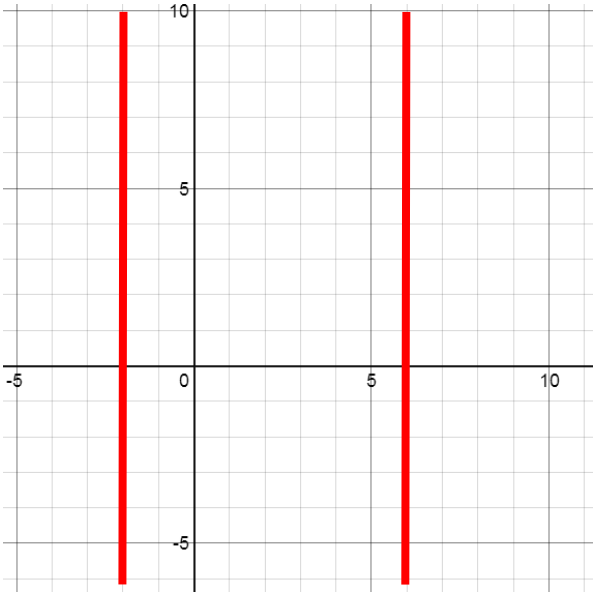
1) Identify whether the line will be solid or dotted.
2) Ignore the inequality and sketch the graph.
3) Pick a coordinate and substitute into the inequality.
4) If it satisfies the inequality, shade the opposite side of the line. If it does not satisfy the inequality, shade that side of the line.

Graphing Inequalities RED

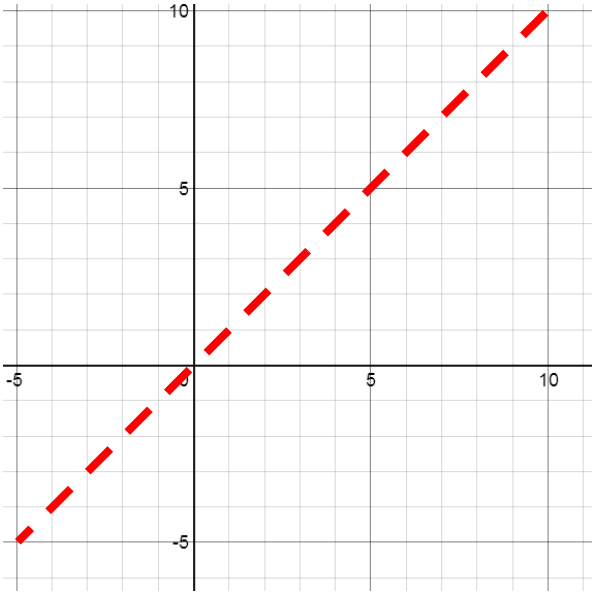
Plot the following inequalities on the given axes. Leave the required region UNSHADED.



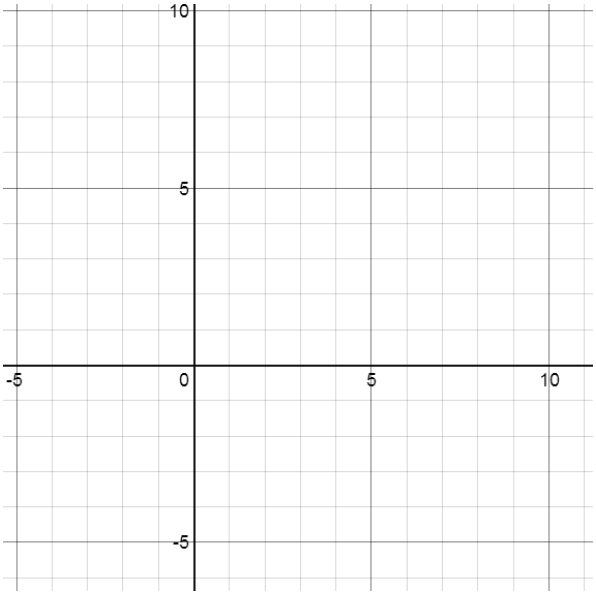
~~$x > 2$~~, $y \leq 4$



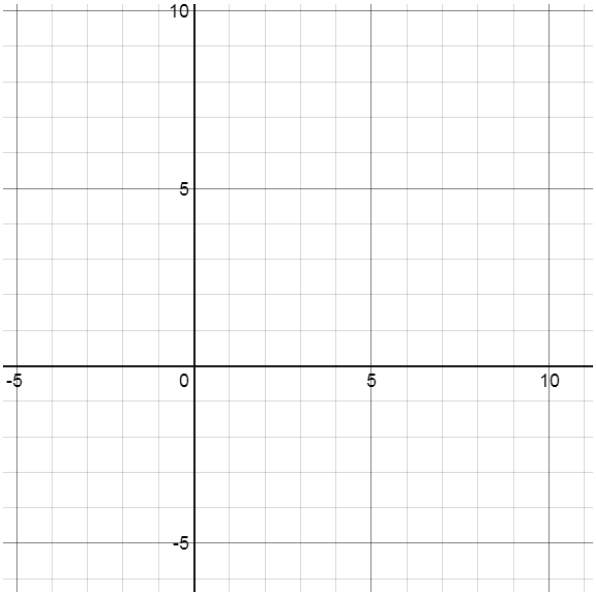
~~$-2 \leq x \leq 6$~~, $-3 < y < 8$



~~$y < x$~~, $x < 5$, $y \geq 0$



$x \geq 0$, $y \geq -1$, $x + y < 7$



$x + y \leq 7$, $y \geq x$

Step by step guide:

1) Identify whether the line will be solid or dotted.
2) Ignore the inequality and sketch the graph.
3) Pick a coordinate and substitute into the inequality.
4) If it satisfies the inequality, shade the opposite side of the line. If it does not satisfy the inequality, shade that side of the line.