

Algebra 1: 7.2 HW - Part 1
Systems of Linear Inequalities

Name _____ Period _____

Determine whether the given point is a solution to the system of linear inequalities.

1.
$$\begin{cases} y \leq 7x - 13 \\ y > 3x + 6 \end{cases}$$

Point (1, 19)

2.
$$\begin{cases} 9x - y \geq 23 \\ 5x + 0.2y \geq 20 \end{cases}$$

Point (4, 10)

3.
$$\begin{cases} y > -13x + 29 \\ y \leq 9x + 11 \end{cases}$$

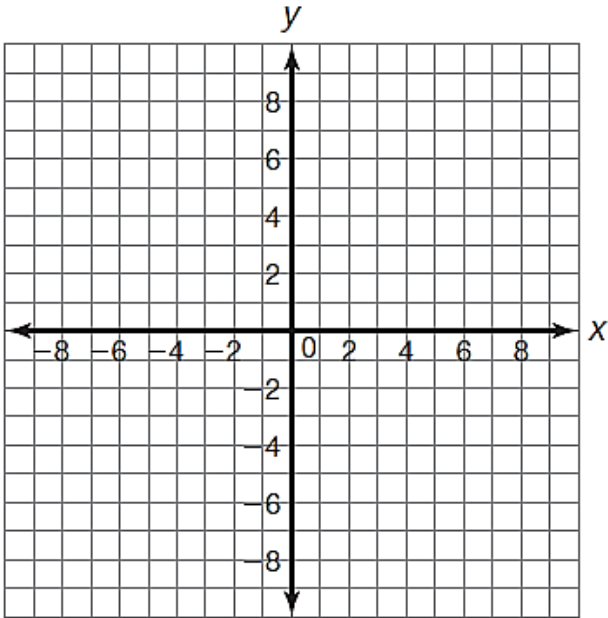
Point (-2, 40)

4.
$$\begin{cases} 10x + 6y > 12 \\ -x + y < 10 \end{cases}$$

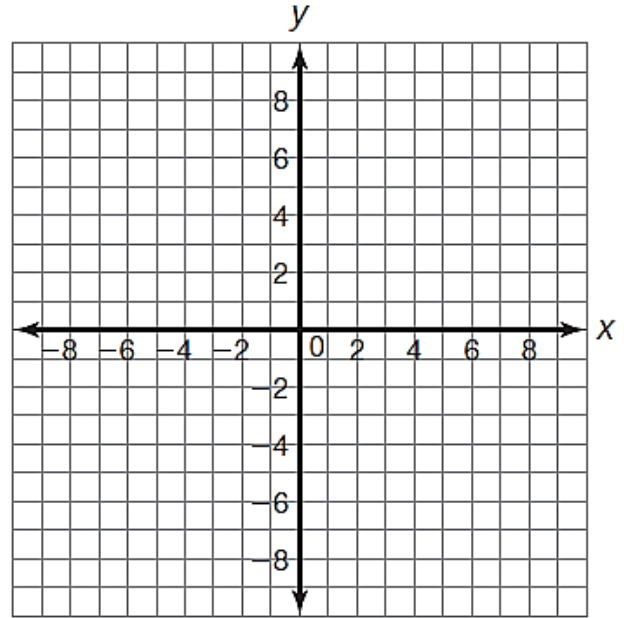
Point (-2, 6)

Graph each system of linear inequalities and identify two solutions.

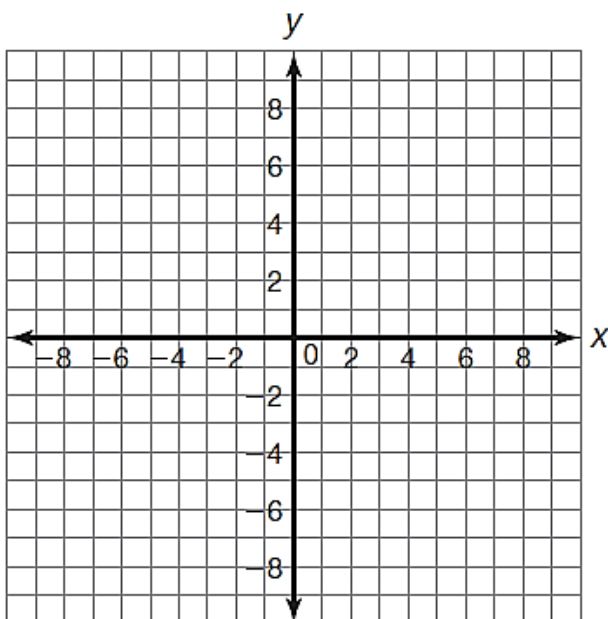
5.
$$\begin{cases} y \leq -\frac{2}{3}x + 3 \\ y \geq 3x - 4 \end{cases}$$



6.
$$\begin{cases} y > 2x + 3 \\ y < 2x - 5 \end{cases}$$



7.
$$\begin{cases} y \geq -\frac{1}{3}x + 4 \\ y \geq 2x + 5 \end{cases}$$



8.
$$\begin{cases} y < -\frac{1}{2}x + 6 \\ y < 2x + 1 \end{cases}$$

