Ready, Set, Go!

Ready

For each of the systems of inequalities, determine if the given coordinates are solutions to the system.

$$\begin{cases} y \le 3x - 3 \\ y \ge x + 2 \end{cases}$$

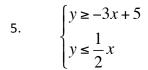
$$\begin{cases} y > -2x + 9 \\ y \ge 5x - 6 \end{cases}$$

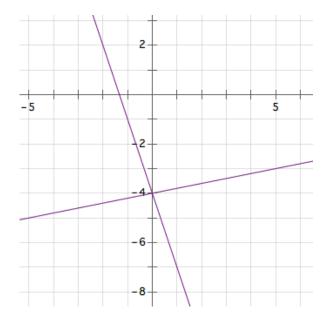
$$\begin{cases} y \le 3x - 5 \\ y \ge x + 2 \end{cases}$$
 2.
$$\begin{cases} y > -2x + 9 \\ y \ge 5x - 6 \end{cases}$$
 3.
$$\begin{cases} y < -\frac{1}{2}x + 9 \\ y > 6x - 10 \end{cases}$$

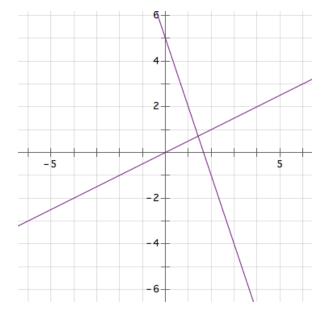
Set

The lines connected with the system of inequalities are provided. Shade both inequalities on the graph to indicate the solution to the system of inequalities.

4.
$$\begin{cases} y \le \frac{1}{5}x - 4 \\ y \ge -3x - 4 \end{cases}$$



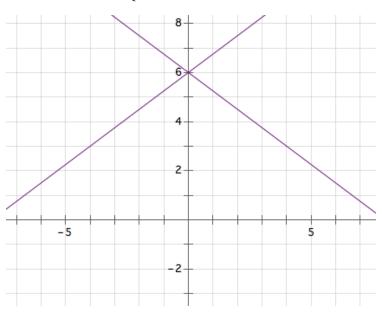




$$\begin{cases} 5x - 2y \le 10 \\ 5x + 2y \le 10 \end{cases}$$

-2

7.
$$\begin{cases} 3x + 4y \le 24 \\ -3x + 4y \le 24 \end{cases}$$



Find the solutions to the system of equations using substitution.

$$\begin{cases} y = -3x + 2 \\ y = x - 6 \end{cases}$$

9.
$$\begin{cases} y = 5x - 2 \\ 2x + y = 19 \end{cases}$$

$$\begin{cases}
 x = 2y \\
 3x - 4y = 10
\end{cases}$$

$$11. \begin{cases}
2x + y = 3 \\
-2x + 3y = 9
\end{cases}$$

Go

Find the slope of the line that goes through each pair of points.