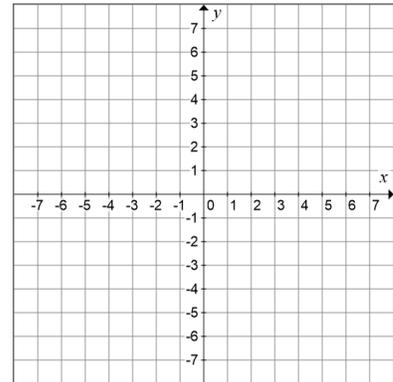


3-2 Worksheet A | Systems of Linear Inequalities

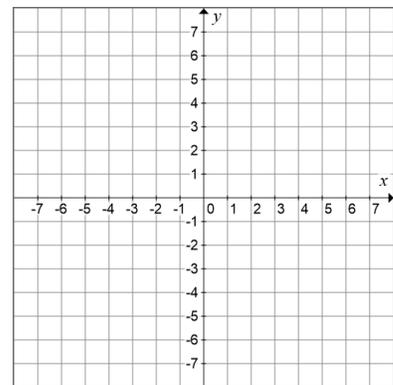
1. Graph the solution set to the system of linear inequalities.

$$\begin{cases} y < -x + 2 \\ y \geq 2x - 3 \end{cases}$$



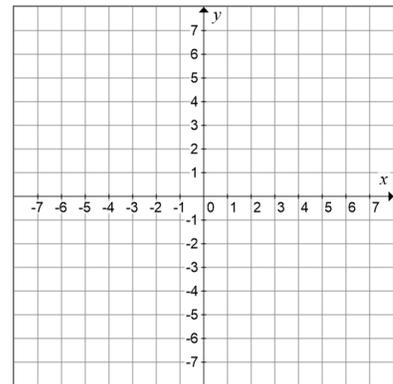
2. Graph the solution set to the system of linear inequalities.

$$\begin{cases} y \leq 3 \\ y \geq -\frac{1}{2}x + 1 \\ y > x - 2 \end{cases}$$



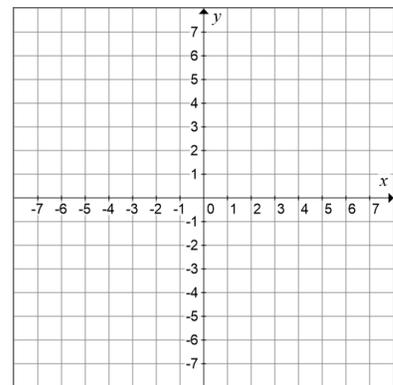
3. Graph the solution set to the system of linear inequalities.

$$\begin{cases} 3y - x < 6 \\ 3y + x \geq 6 \end{cases}$$



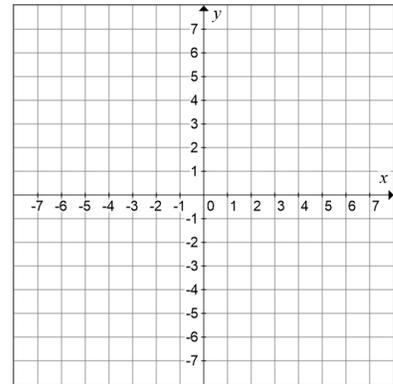
4. Graph the solution set to the system of linear inequalities.

$$\begin{cases} y < 2 \\ x \geq -4 \\ 4y - 3x \geq -4 \end{cases}$$



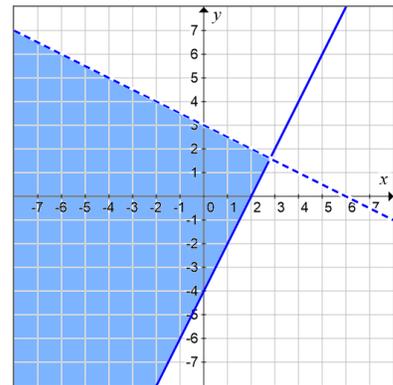
5. Graph the solution set to the system of linear inequalities.

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



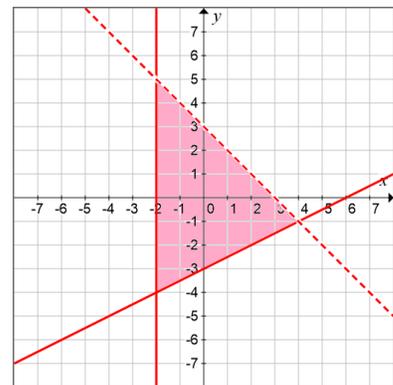
6. Write the system of inequalities whose solution is pictured.

$$\left\{ \begin{array}{l} \\ \\ \end{array} \right.$$



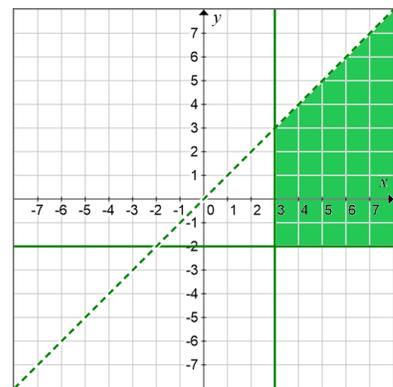
7. Write the system of inequalities whose solution is pictured.

$$\left\{ \begin{array}{l} \\ \\ \end{array} \right.$$



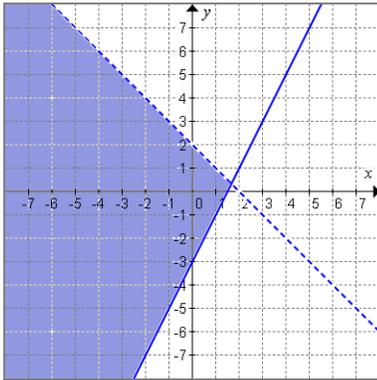
8. Write the system of inequalities whose solution is pictured.

$$\left\{ \begin{array}{l} \\ \\ \end{array} \right.$$

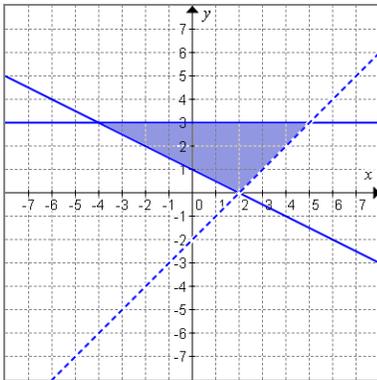


# Answer Key

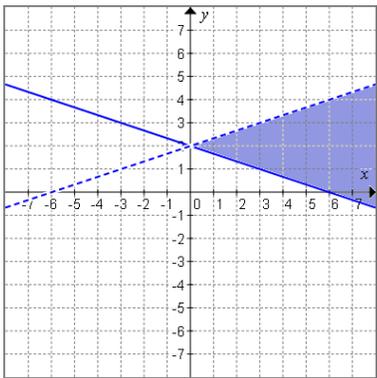
1.



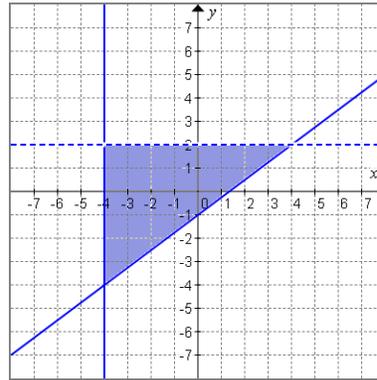
2.



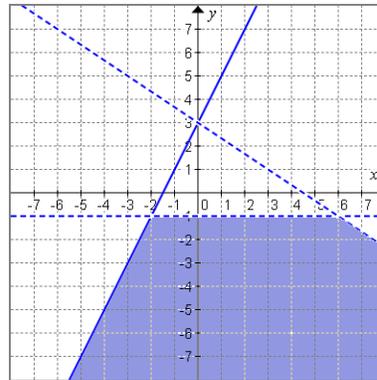
3.



4.



5.



$$6. \begin{cases} y < -\frac{1}{2}x + 3 \\ y \geq 2x - 4 \end{cases}$$

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

$$8. \begin{cases} y < x \\ x \geq 3 \\ y \geq -2 \end{cases}$$