

7-2 Graphing Systems of Inequalities

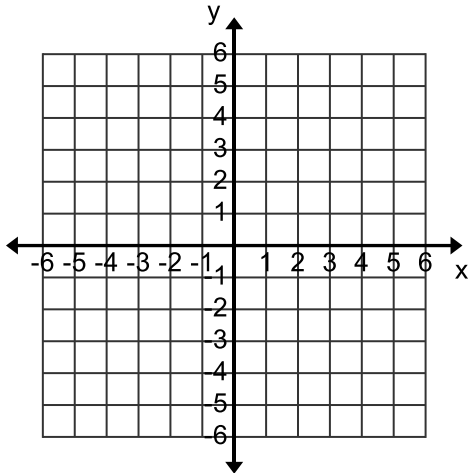
Name: _____

Time Start: _____ Finish: _____

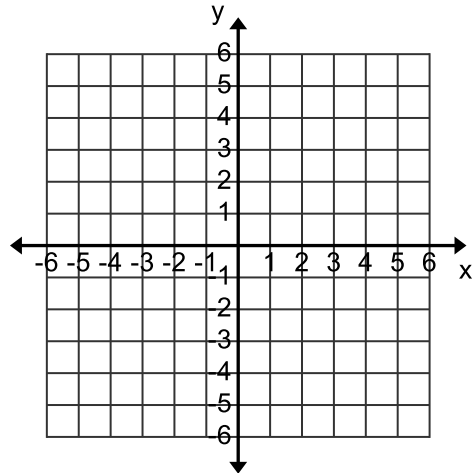
Total Time = _____

Graph the following on the given graphs.

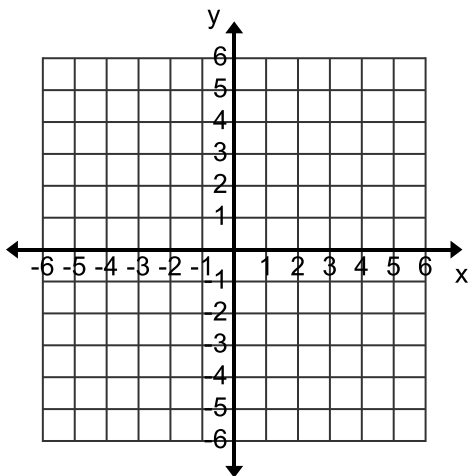
1.
$$\begin{cases} y > -2x + 1 \\ y \leq \frac{1}{2}x + 1 \end{cases}$$



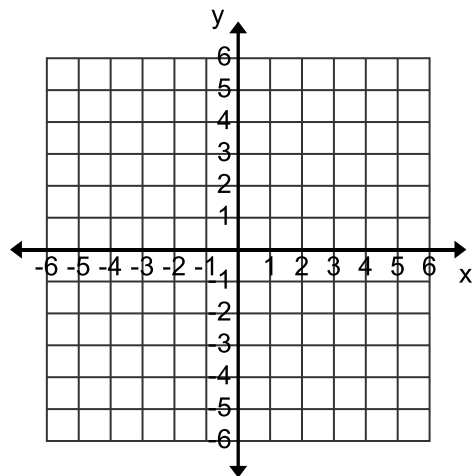
2.
$$\begin{cases} y \leq 3x - 1 \\ y > -2x + 1 \end{cases}$$



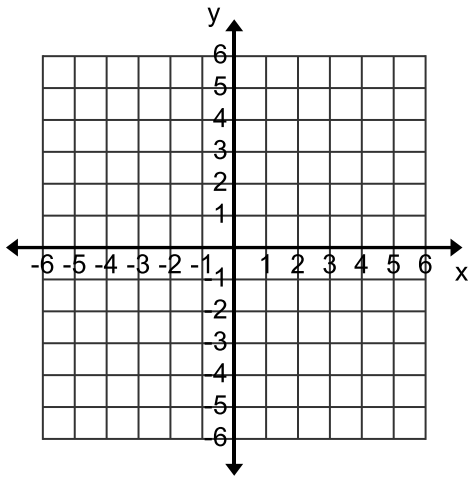
3.
$$\begin{cases} y \leq \frac{1}{3}x + 2 \\ y \leq 2x + 1 \end{cases}$$



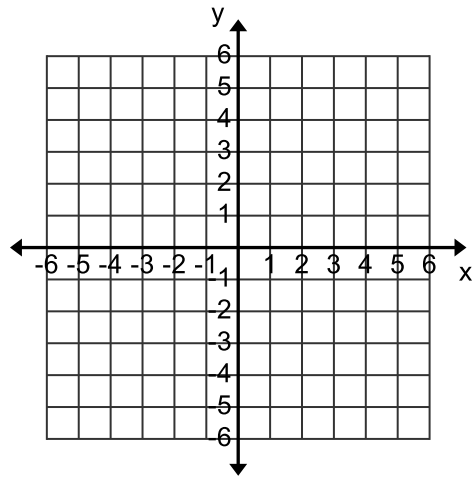
4.
$$\begin{cases} y > x - 1 \\ y < -x + 1 \end{cases}$$



5.
$$\begin{cases} y < -x + 1 \\ y > \frac{1}{3}x + 1 \end{cases}$$



6.
$$\begin{cases} y \leq \frac{1}{4}x - 1 \\ y \leq x + 1 \end{cases}$$

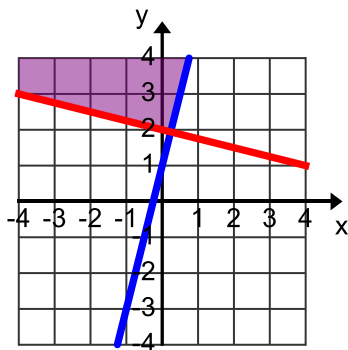


Tell what system of inequalities is graphed.

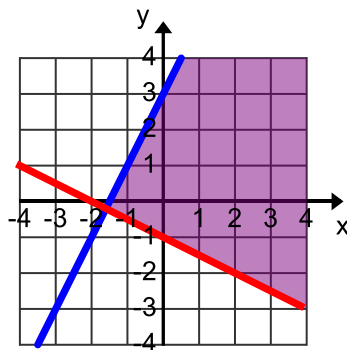
This PDF copy makes both lines look solid, so....

the only lines that are solid are the positive slopes in #7 & #8 (blue lines)

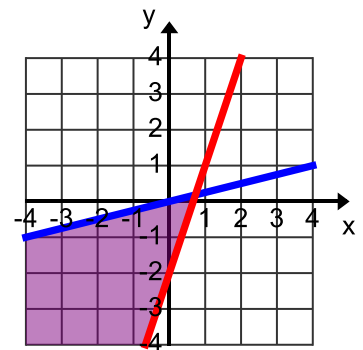
All other lines are dashed.



7.
$$\left\{ \right.$$



8.
$$\left\{ \right.$$



9.
$$\left\{ \right.$$