SYSTEMS OF INEQUALITIES
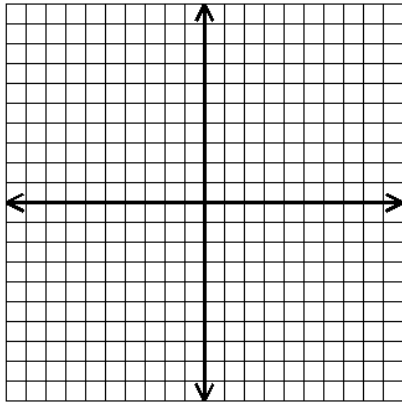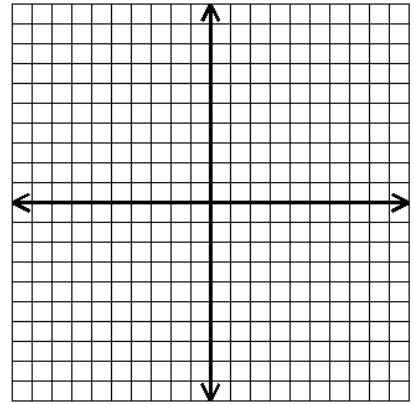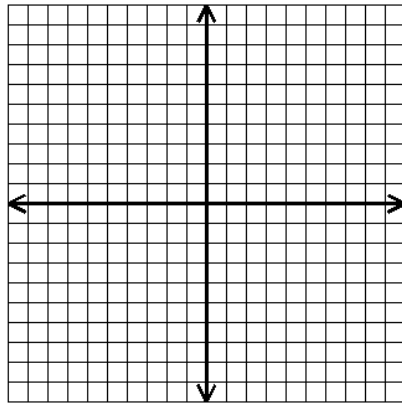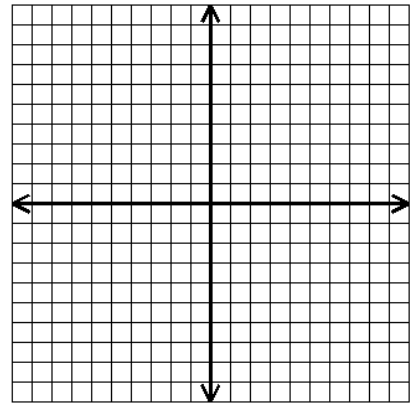
1. $\begin{cases} x < 3 \\ x > -2 \end{cases}$
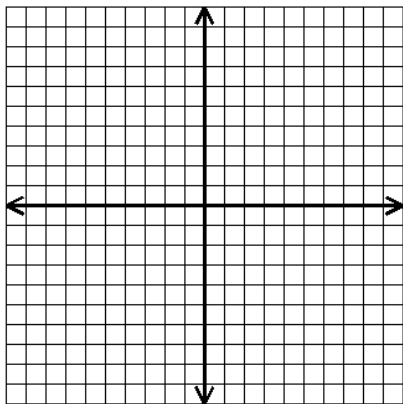
2. $\begin{cases} 2x - y \le 3 \\ y > -5x + 8 \end{cases}$

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

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

5. $\begin{cases} x + y > 3 \\ 4x + y < 4 \end{cases}$

6. $\begin{cases} x + y \ge -10 \\ x > -1 \\ y < 1 \end{cases}$

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

8. $\begin{cases} y \geq -x - 1 \\ x - y \geq -2 \end{cases}$

9. Mrs. Daniel packs reams of paper into boxes. The box has a mass of 18 ounces, and each ream of paper weighs 22 ounces. If the function **y = 22x + 18** describes the total mass, the independent variable represents the —

    A. total mass of a box filled with reams of paper

    B. total number of boxes filled with reams of paper

    C. mass of each ream of paper inside a box

    D. number of reams of paper packed in a box

10. Where does the function 4x + 3y = 24 cross the y-axis?

F. $-\dfrac{4}{3}$ H. $\dfrac{4}{3}$

G.   -8   J. 8