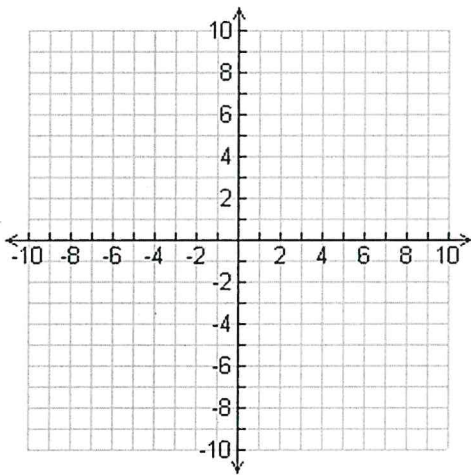


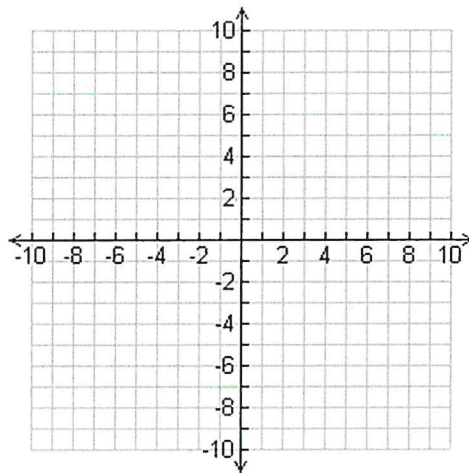
Unit 4: Systems
PRE-TEST

Solve each of the following systems by GRAPHING:

$$\begin{aligned} 1. \quad & 2y = 10 - x \\ & -3 = y + \frac{9}{2}x \end{aligned}$$



$$\begin{aligned} 2. \quad & 36 = -9x - 4y \\ & -9x = 24y - 144 \end{aligned}$$



Solve each of the following systems by using SUBSTITUTION:

$$\begin{aligned} 3. \quad & 7x + 7x = -14 \\ & x - y = -14 \end{aligned}$$

$$\begin{aligned} 4. \quad & 3x - 7y = 20 \\ & -x + 4y = -15 \end{aligned}$$

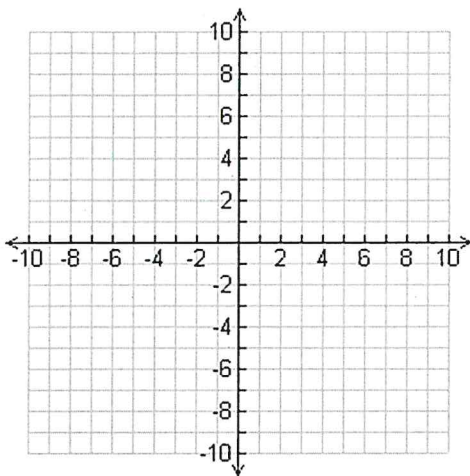
Solve each of the following systems by ELIMINATION:

$$\begin{aligned} 5. \quad & -7x + 8y = -12 \\ & -x + 16y = 28 \end{aligned}$$

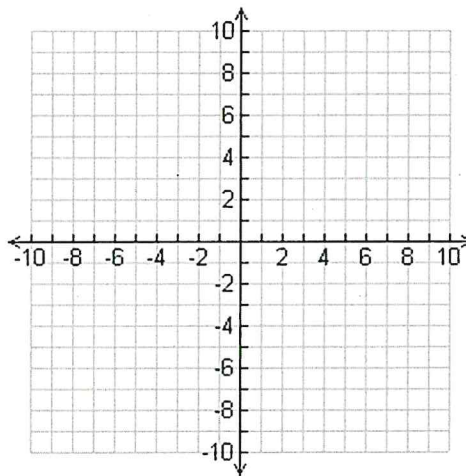
$$\begin{aligned} 6. \quad & 4x + 3y = 23 \\ & 3x - 2y = -21 \end{aligned}$$

Sketch the graph of each of the following Linear Inequalities:

$$7. \quad y \geq -3x - 3$$

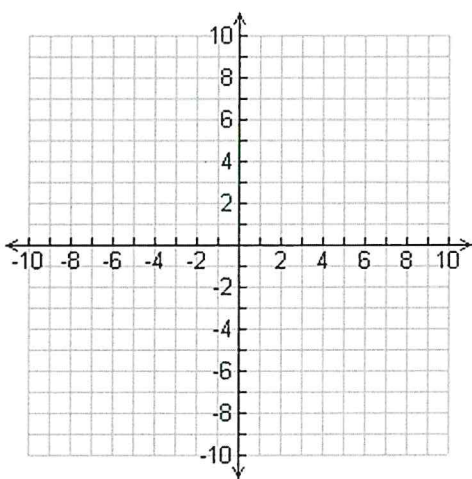


$$8. \quad x - 2y < -6$$



Sketch the solution to each of the following systems of Linear Inequalities:

9. $y > -2x + 1$
 $y > 5x - 6$



10. $2x + 3y \leq 21$
 $11x - 6y \geq 48$

