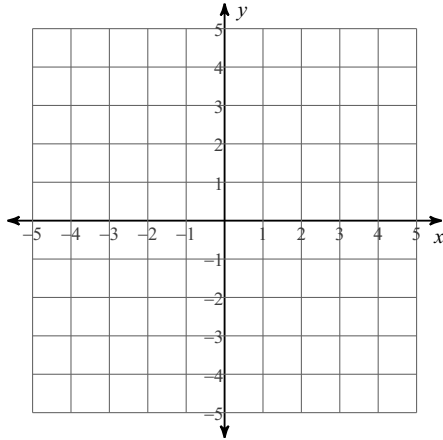


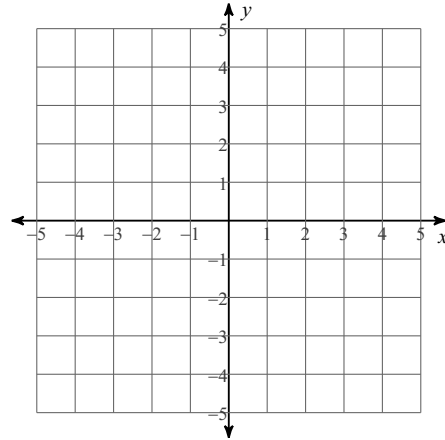
Solving Systems by Graphing - Class Notes Date _____ Period _____

Solve each system by graphing.

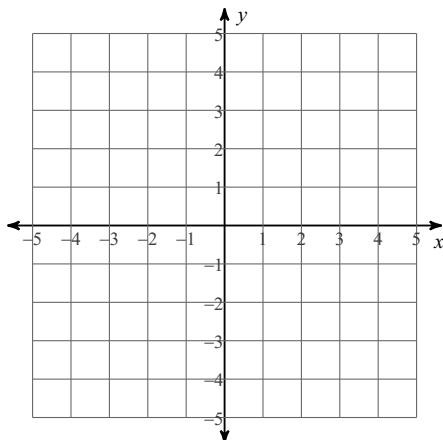
1) $y = 2x - 2$
 $y = -\frac{1}{2}x + 3$



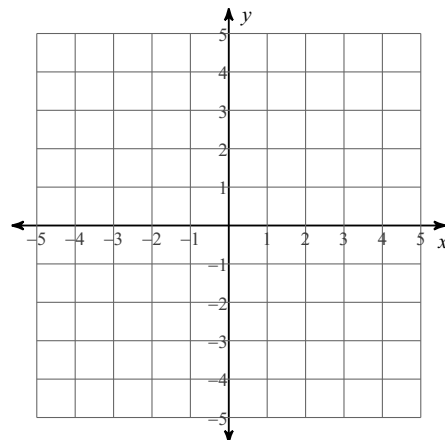
2) $y = -\frac{3}{2}x - 4$
 $x = -4$



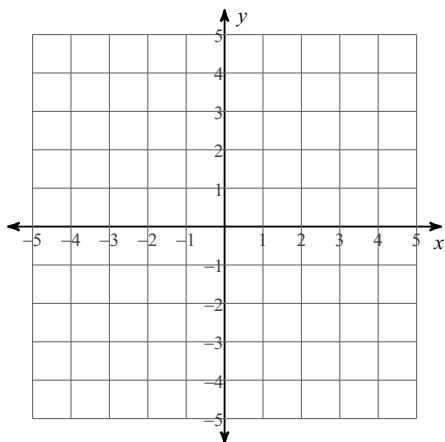
3) $y = 2x - 4$
 $y = 2x + 3$



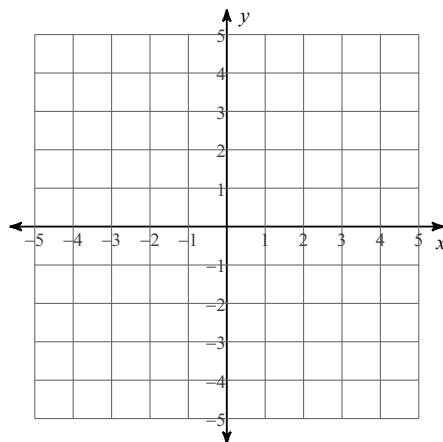
4) $2x + 3y = -6$
 $-4x - 6y = 12$



$$\begin{aligned} 5) \quad x + 4y &= -12 \\ 3x - 4y &= -4 \end{aligned}$$

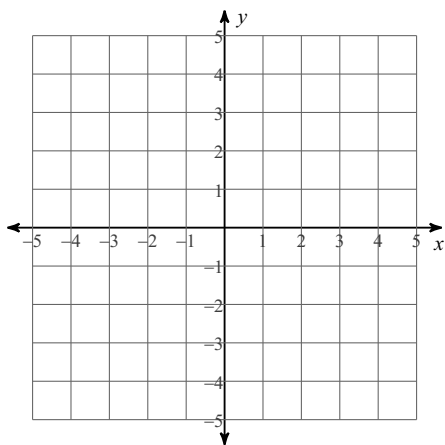


$$\begin{aligned} 6) \quad x + y &= 4 \\ x + y &= -2 \end{aligned}$$

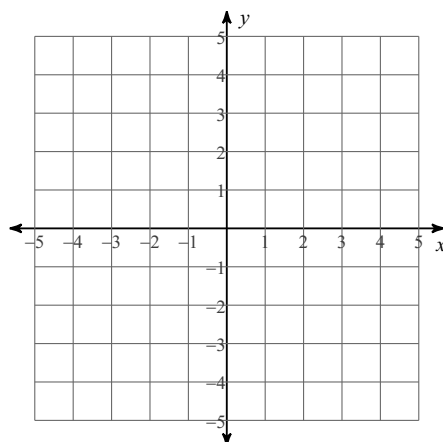


Sketch the solution to each system of inequalities.

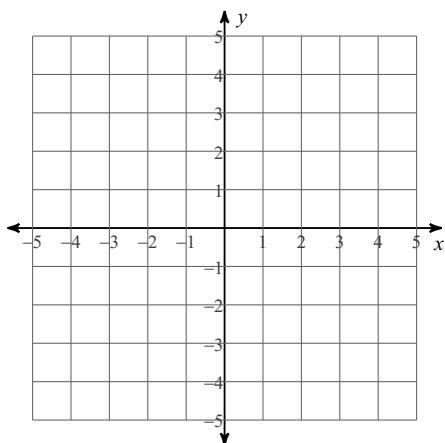
$$\begin{aligned} 7) \quad y &\geq -\frac{4}{3}x - 3 \\ y &\leq \frac{1}{3}x + 2 \end{aligned}$$



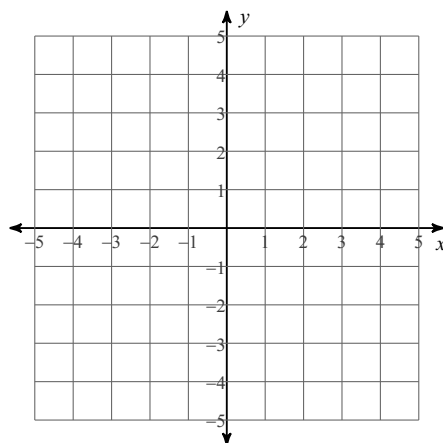
$$\begin{aligned} 8) \quad y &> -\frac{4}{3}x - 1 \\ x &\geq -3 \end{aligned}$$



$$\begin{aligned} 9) \quad 5x + 2y &> 4 \\ x + 2y &< -4 \end{aligned}$$



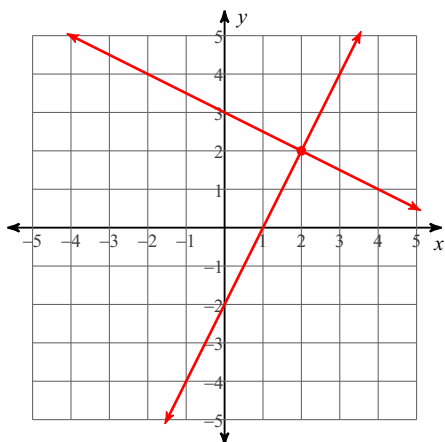
$$\begin{aligned} 10) \quad 3x - 2y &\geq 2 \\ x + 2y &< 6 \end{aligned}$$



Solving Systems by Graphing - Class Notes

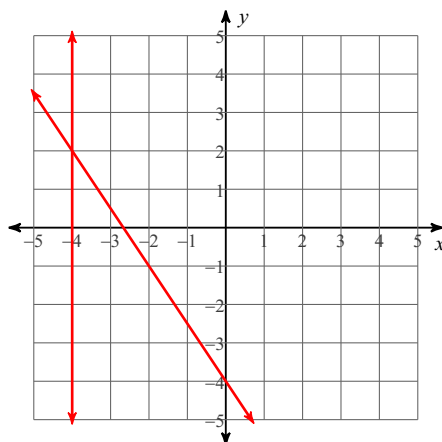
Solve each system by graphing.

1) $y = 2x - 2$
 $y = -\frac{1}{2}x + 3$

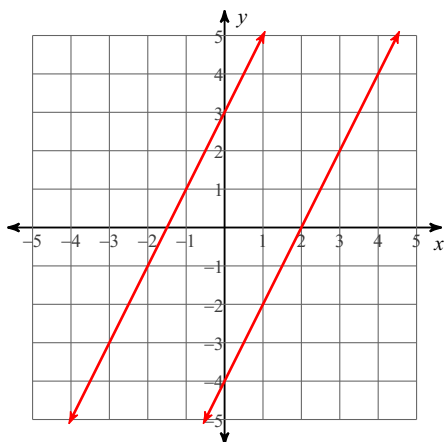


$(2, 2)$

2) $y = -\frac{3}{2}x - 4$
 $x = -4$

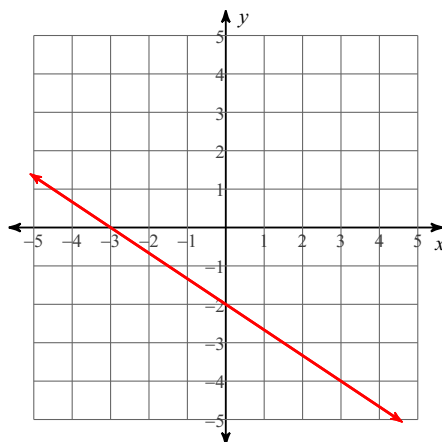


3) $y = 2x - 4$
 $y = 2x + 3$

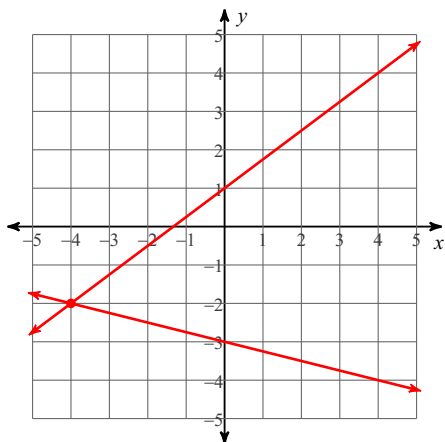


No solution

4) $2x + 3y = -6$
 $-4x - 6y = 12$

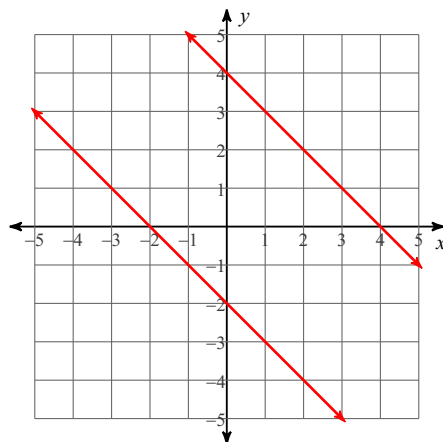


$$\begin{aligned} 5) \quad & x + 4y = -12 \\ & 3x - 4y = -4 \end{aligned}$$



$(-4, -2)$

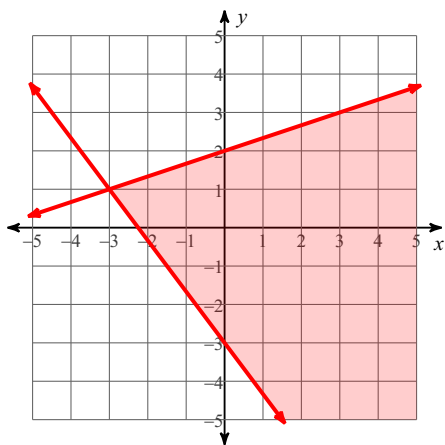
$$\begin{aligned} 6) \quad & x + y = 4 \\ & x + y = -2 \end{aligned}$$



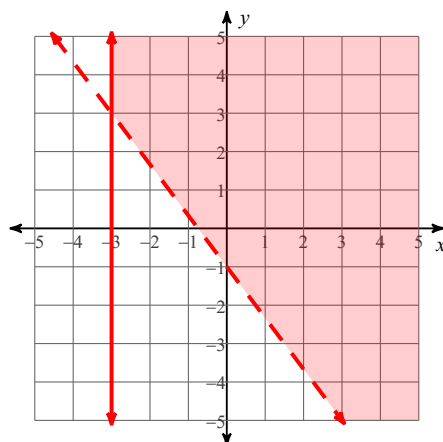
No solution

Sketch the solution to each system of inequalities.

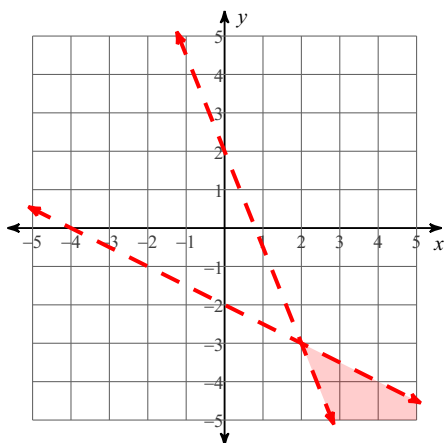
$$\begin{aligned} 7) \quad & y \geq -\frac{4}{3}x - 3 \\ & y \leq \frac{1}{3}x + 2 \end{aligned}$$



$$\begin{aligned} 8) \quad & y > -\frac{4}{3}x - 1 \\ & x \geq -3 \end{aligned}$$



$$\begin{aligned} 9) \quad & 5x + 2y > 4 \\ & x + 2y < -4 \end{aligned}$$



$$\begin{aligned} 10) \quad & 3x - 2y \geq 2 \\ & x + 2y < 6 \end{aligned}$$

