

Name: Kuj

Class: \_\_\_\_\_

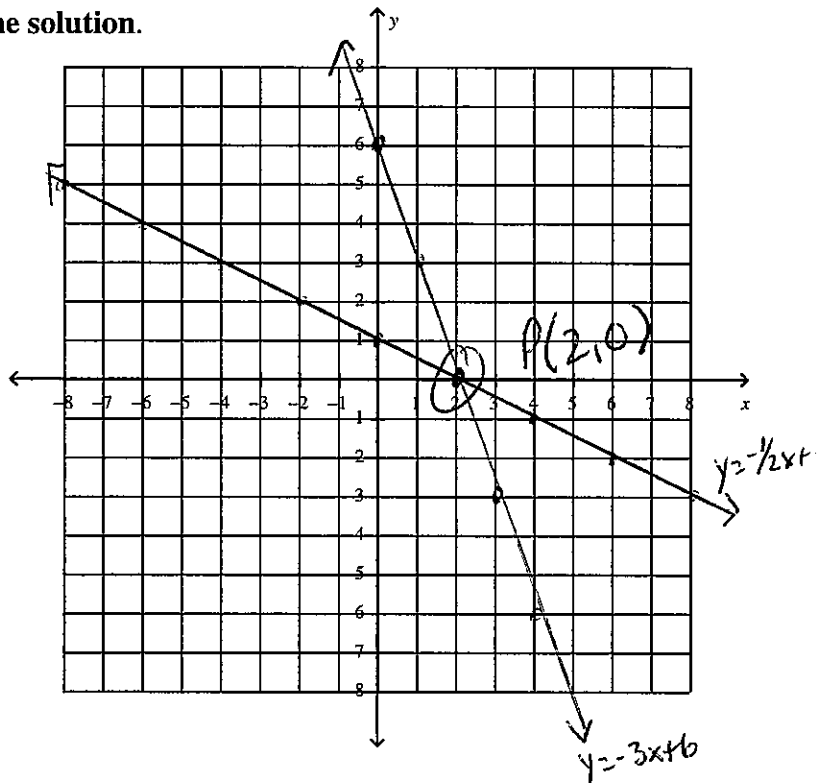
M8-U5: Notes #2 – Graphing Systems (Day2)

Date: \_\_\_\_\_

**Warm-Up:**

Graph the two linear equations and **find the solution.**

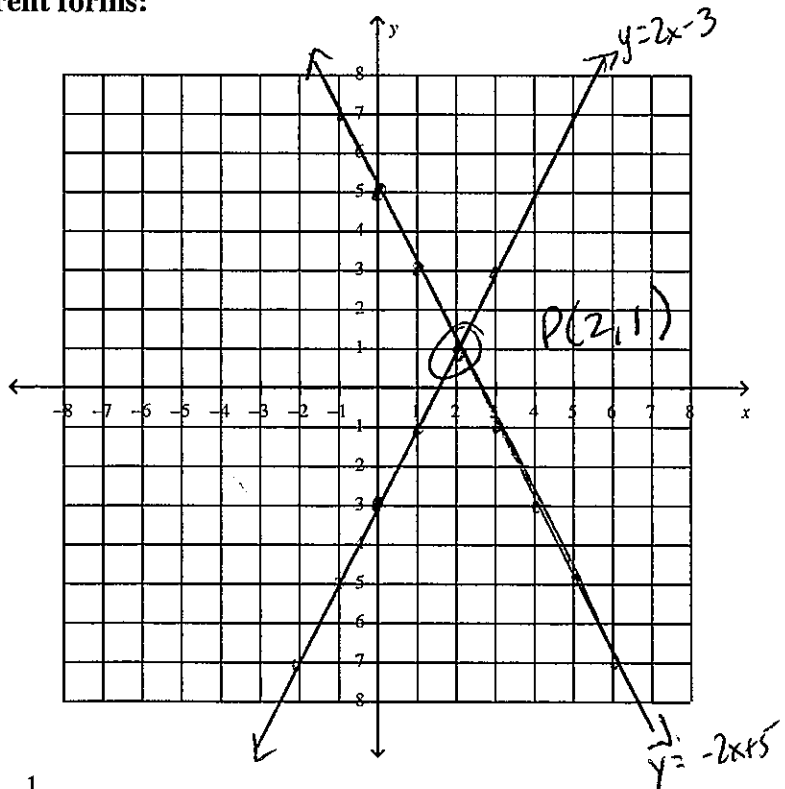
$$\begin{cases} y = -3x + 6 \\ y = -\frac{1}{2}x + 1 \end{cases}$$



**Graphing a system of equations in different forms:**

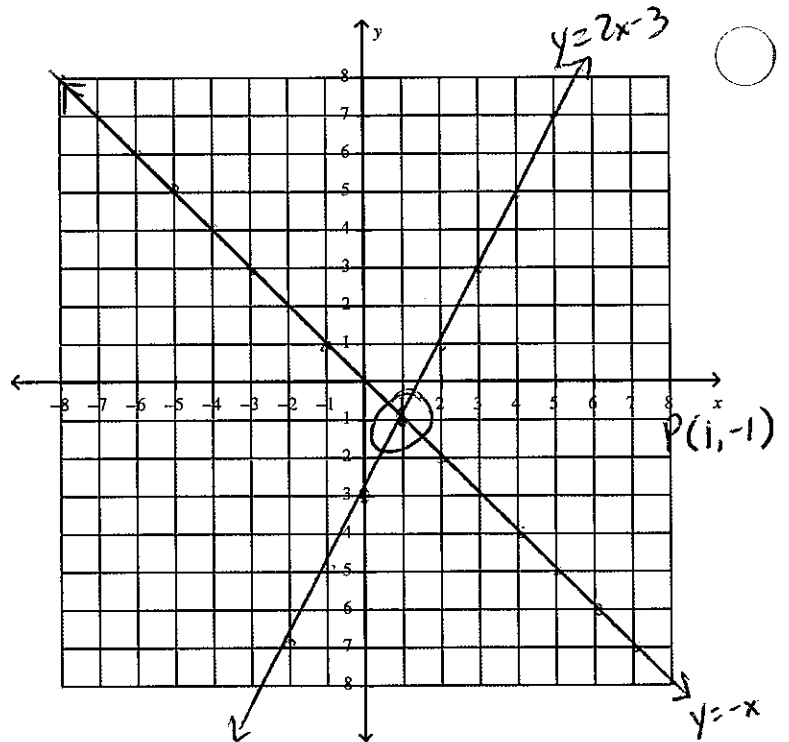
1. Find the solution to the system.

$$\begin{cases} y = 2x - 3 \\ 2x + y = 5 \end{cases}$$
$$\begin{array}{r} y = 2x - 3 \\ 2x + y = 5 \\ \hline -2x \quad -2x \\ \hline y = -2x + 5 \end{array}$$



2. Find the solution to the system.

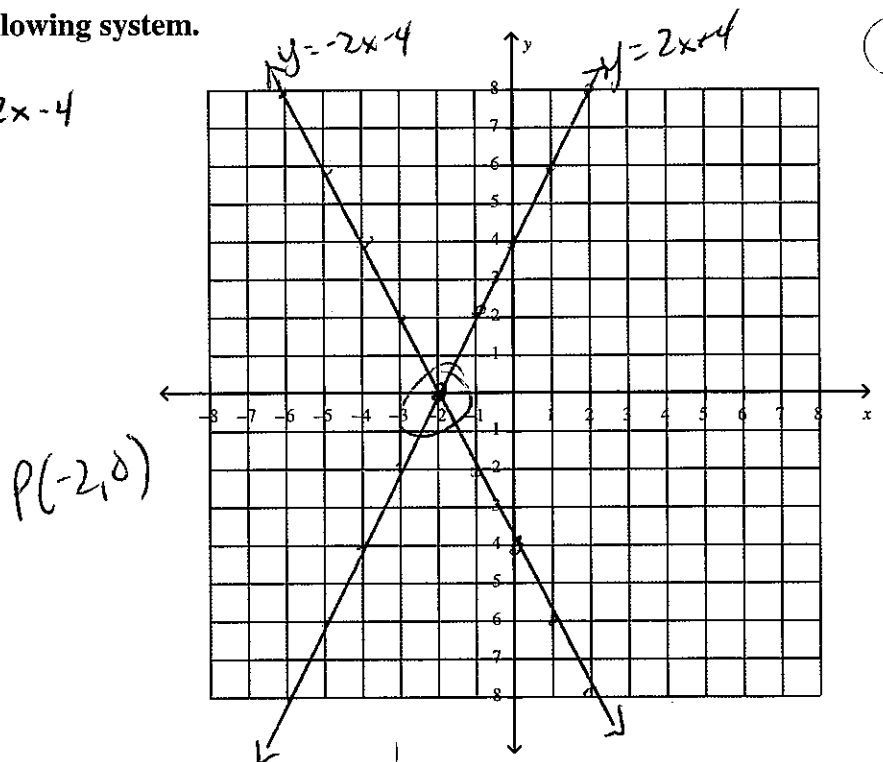
$$\begin{cases} y = -x \\ y + 3 = 2x \end{cases}$$
$$y = 2x - 3$$



Try It!

Find the solution the following system.

$$\begin{cases} 2x + y = -4 \rightarrow y = -2x - 4 \\ y = 2x + 4 \end{cases}$$

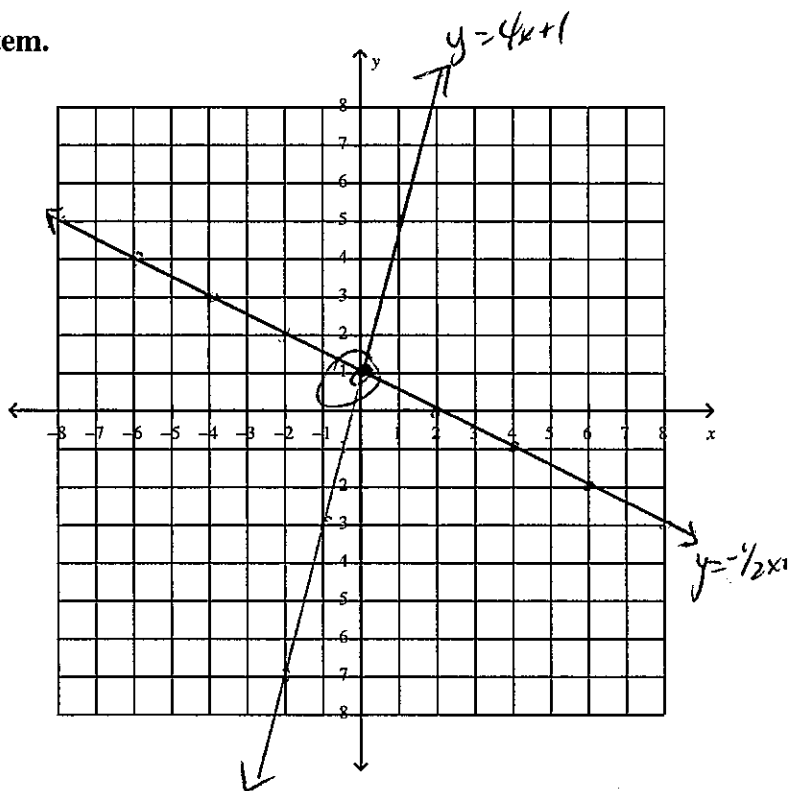


Try It!

Find the solution the following system.

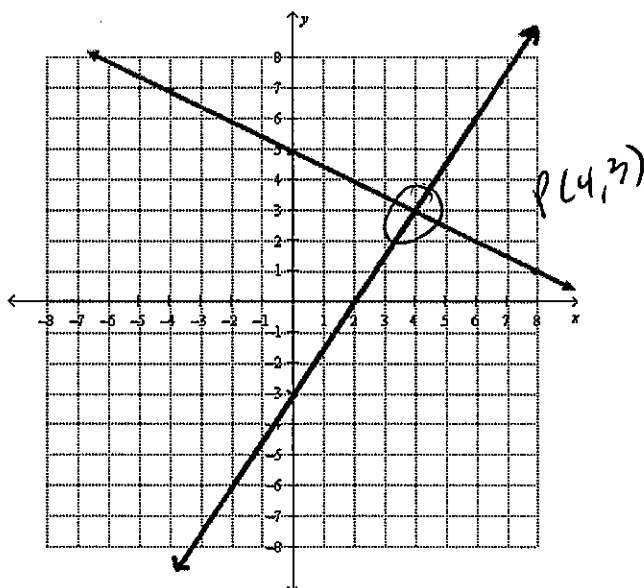
$$\begin{cases} -4x + y = 1 \rightarrow y = 4x + 1 \\ y = -\frac{1}{2}x + 1 \end{cases}$$

$P(0,1)$

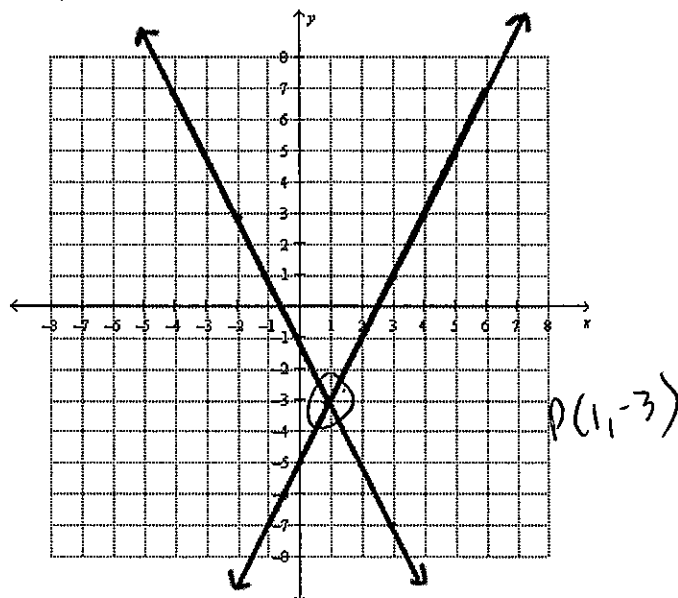


Find the solution to the given systems.

3.



4.



5. Find the solution the following system.

$$\begin{cases} 3x+4y=12 \rightarrow \frac{4y}{4} = \frac{-3x+12}{4} \\ y = -\frac{3}{4}x+3 \\ y = -\frac{3}{4}x+3 \end{cases}$$

Same eqn,  
infinitely  
many  
solutions.

