

Name: Key

Class: _____

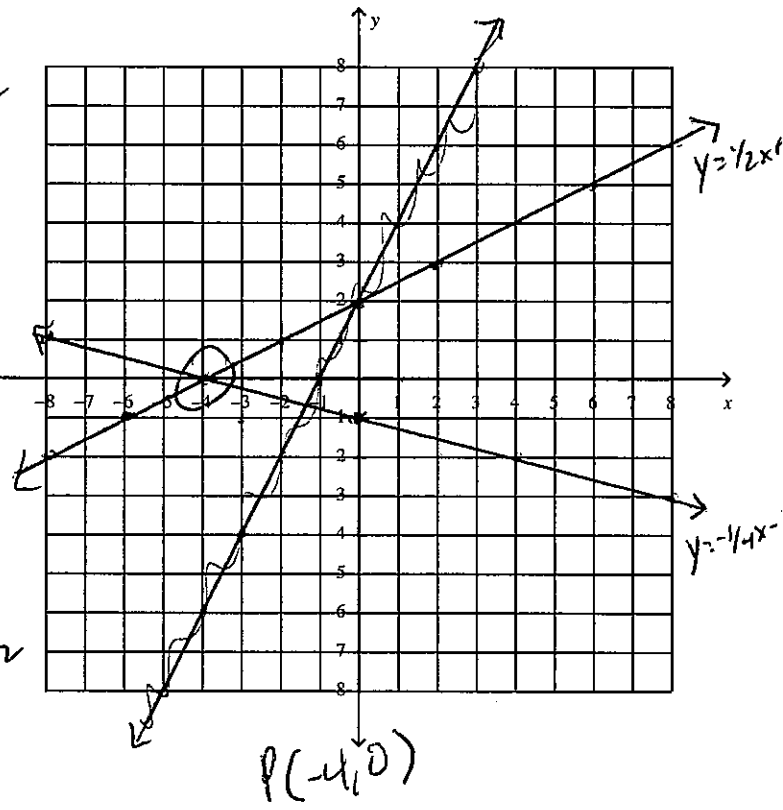
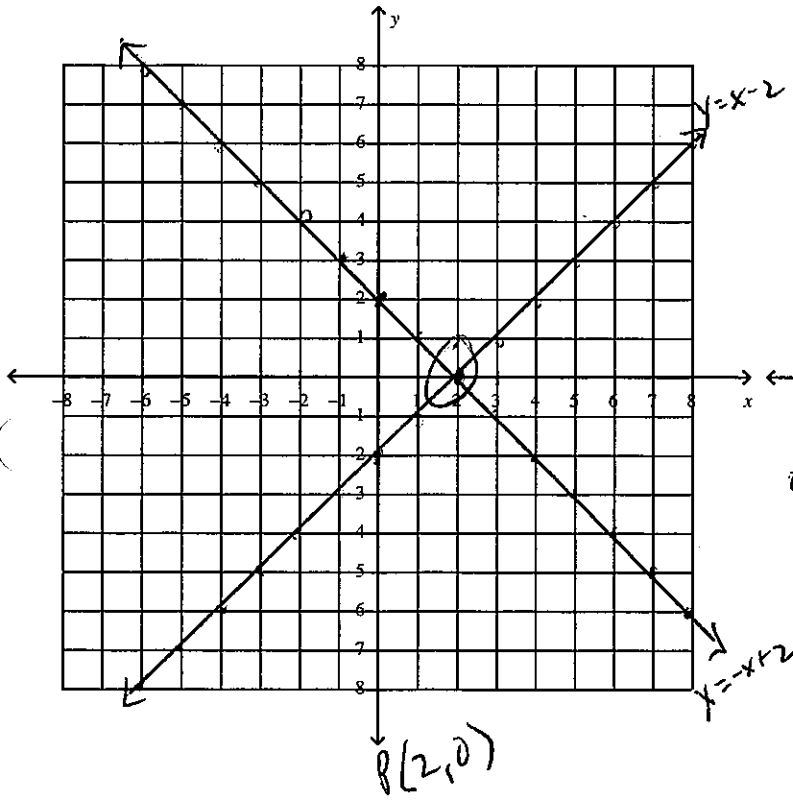
M8-U5: HW #2 - Graphing Systems (Day2)

Date: _____

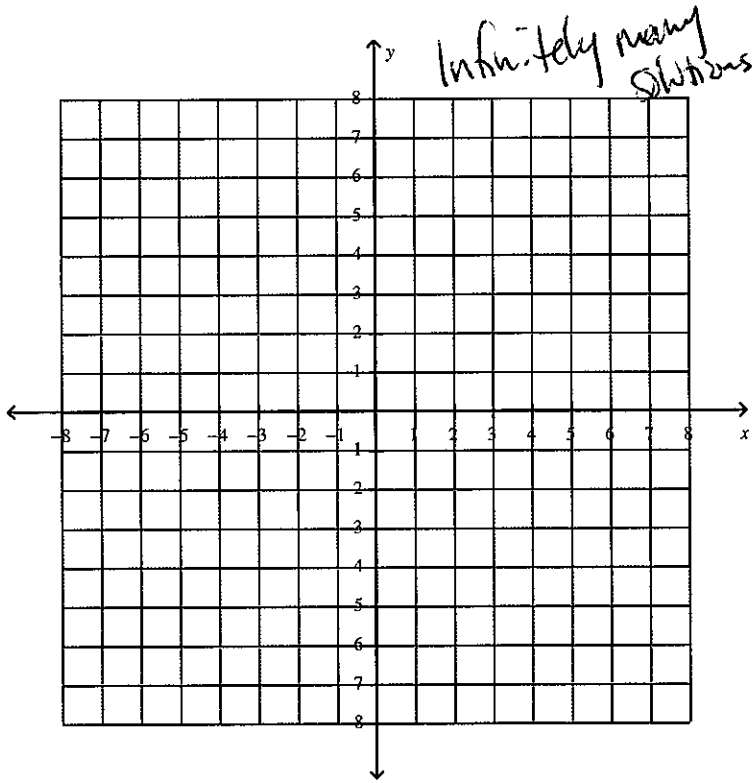
Graph the two linear equations and find the solution.

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

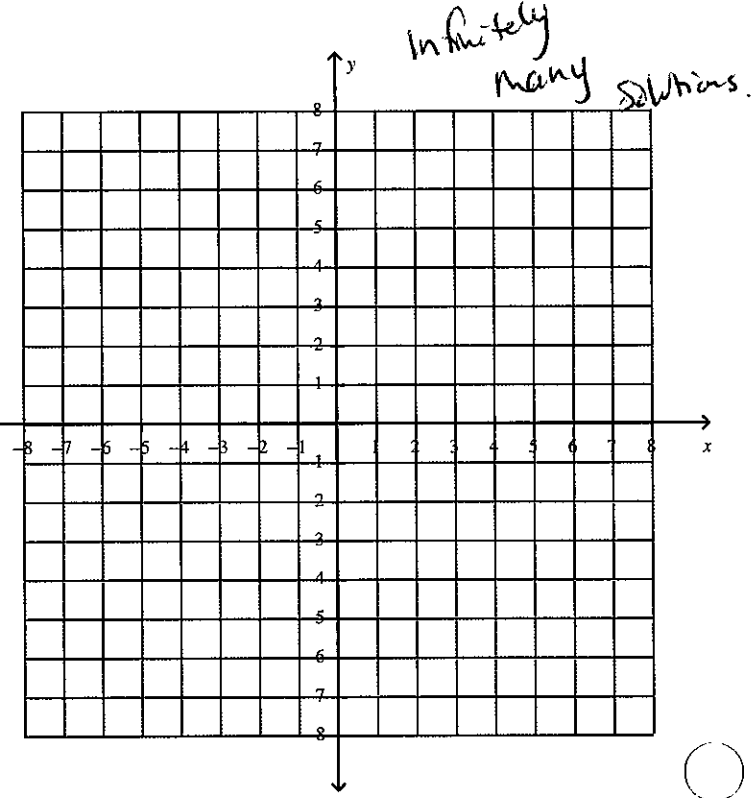
2.
$$\begin{cases} y = -\frac{1}{4}x - 1 \\ y - 2 = \frac{1}{2}x \rightarrow y = \frac{1}{2}x + 2 \end{cases}$$



$$3. \begin{cases} y = 2x + 6 \\ -2x + y = 6 \Rightarrow y = 2x + 6 \end{cases}$$



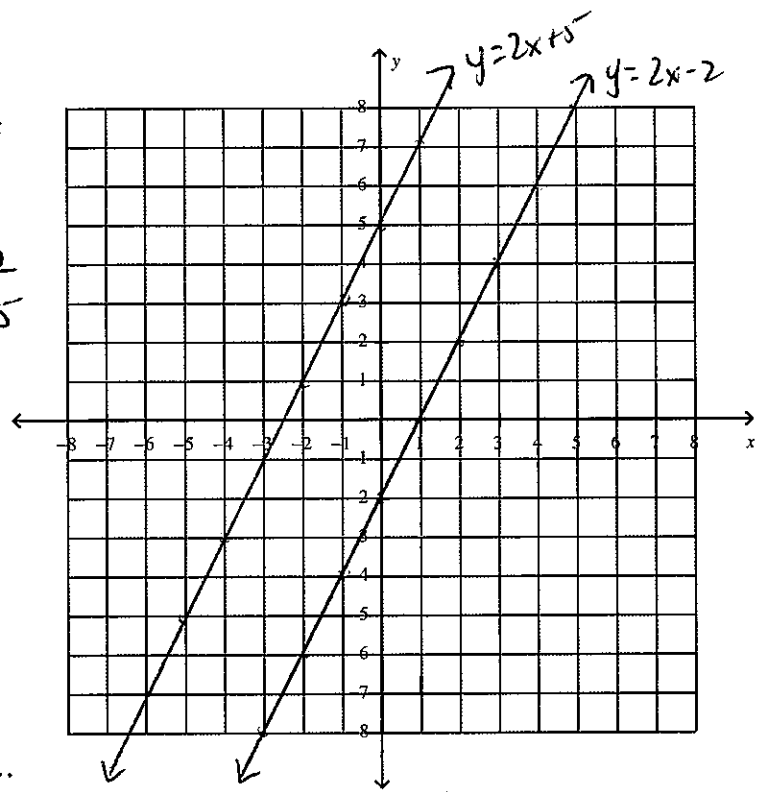
$$4. \begin{cases} y - 4 = 2x \rightarrow y = 2x + 4 \\ y - 2x = 4 \rightarrow y = 2x + 4 \end{cases}$$



$$5. \begin{cases} 2 + y = 2x \\ y - 2x = 5 \end{cases}$$

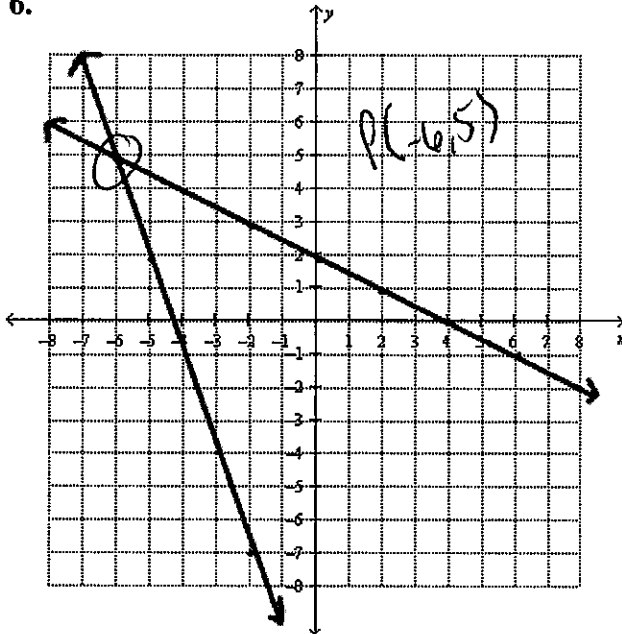
$$\rightarrow \begin{cases} y = 2x - 2 \\ y = 2x + 5 \end{cases}$$

Same slopes,
parallel
lines,
no
solutions.

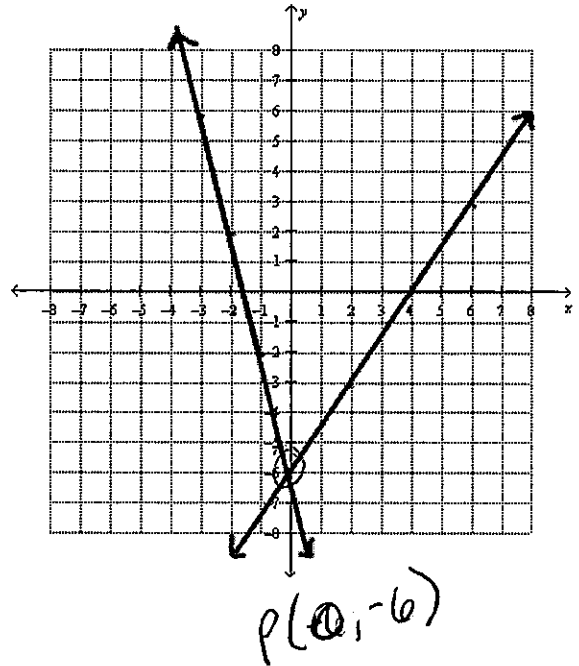


Find the solution to the given systems.

6.



7.



Spiral – Show all work:

Solve the following equations:

8. $7k - 8 + 2(k + 12) = 52$

$$\textcircled{7k} - 8 + \textcircled{2k} + \textcircled{24} = 52$$

$$\begin{array}{r} 9k + 16 = 52 \\ -16 \quad -16 \\ \hline \end{array}$$

$$\begin{array}{r} 9k = 36 \\ \frac{9}{9} \quad \frac{9}{9} \end{array}$$

$$\textcircled{k = 4}$$

9.

$$\textcircled{6(f+5)} = \textcircled{2(f-3)}$$

$$\begin{array}{r} 6f + 30 = 2f - 6 \\ -2f \quad \quad -2f \end{array}$$

$$\begin{array}{r} 4f + 30 = -6 \\ +30 \quad -30 \\ \hline \end{array}$$

$$\begin{array}{r} 4f = -36 \\ \frac{4}{4} \quad \quad \frac{4}{4} \end{array}$$

$$\textcircled{f = -9}$$

