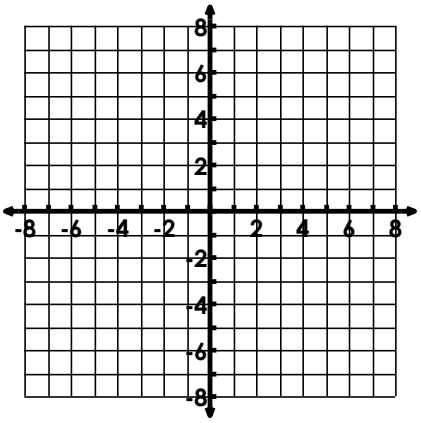
Day 2 – Graphing Systems **Name:** _____

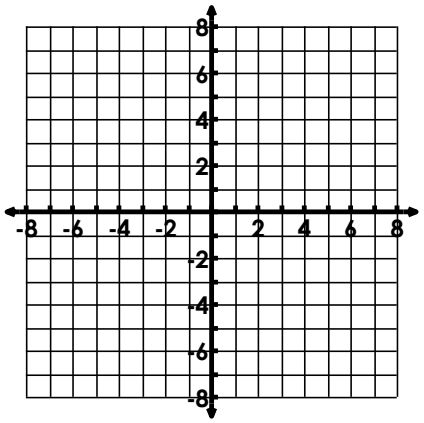
Practice Assignment **Date:** _____ **Block:** _____

Directions: Find the solution to each systems of equations. Use the graphing calculator to check your work. If there is *no solution* or *infinitely many*, explain why.

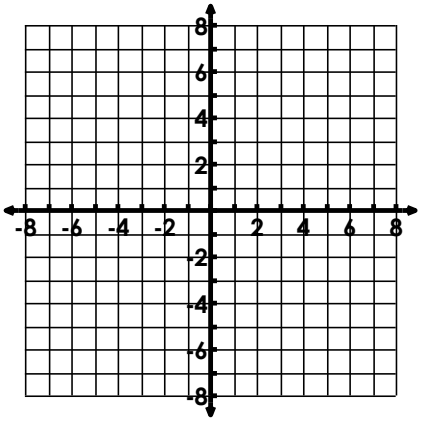
1) $\begin{cases} y = -x + 1 \\ y = \frac{1}{2}x - 2 \end{cases}$



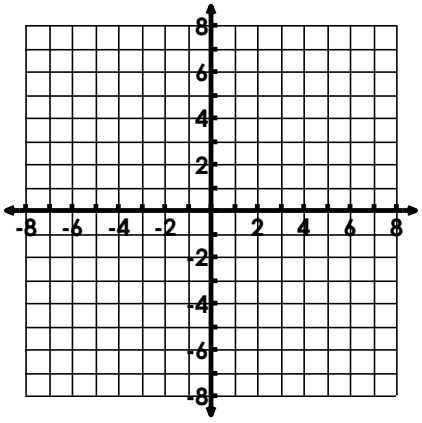
2) $\begin{cases} x = 3 \\ y = -\frac{1}{3}x + 4 \end{cases}$



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



4) $\begin{cases} y = \frac{1}{4}x + 3 \\ y = \frac{1}{4}x - 2 \end{cases}$



Directions: Determine if the following systems will have infinite, no, or one solution. Then explain why.

5) $\begin{cases} y = 2x + 1 \\ y = 2x - 2 \end{cases}$

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

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

8) $\begin{cases} y = -x + 1 \\ 2y = -2x + 2 \end{cases}$

Complete the tables. Then determine the solution to the systems of equations.

9)

x	$y = -x$	$y = x - 6$
0		
3		
6		
9		

10)

x	$y = 2x + 4$	$y = 4x + 2$
−2		
−1		
0		
1		