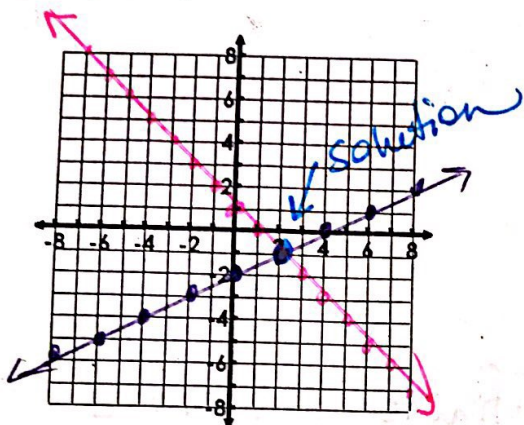


Practice Assignment

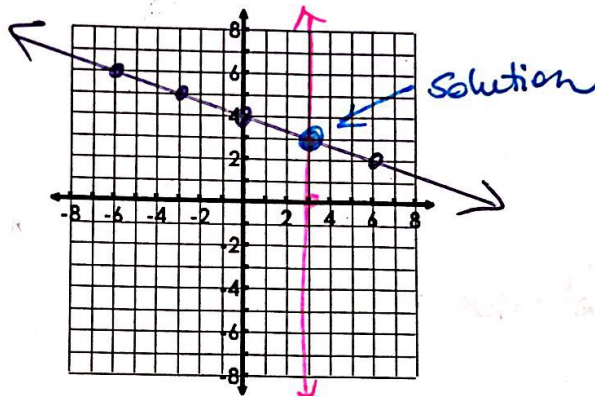
Directions: Find the solution to each systems of equations. Use the graphing calculator to check your work. If there is *no solution* or *infinitely many*, explain why.

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



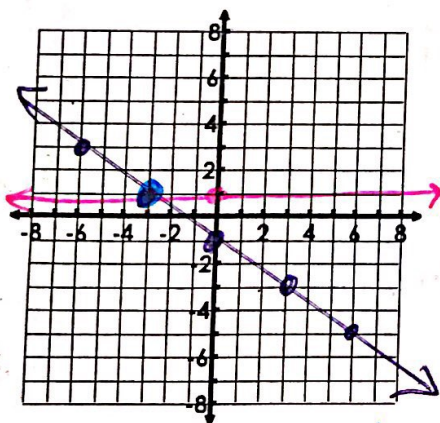
Solution (2, -1)

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



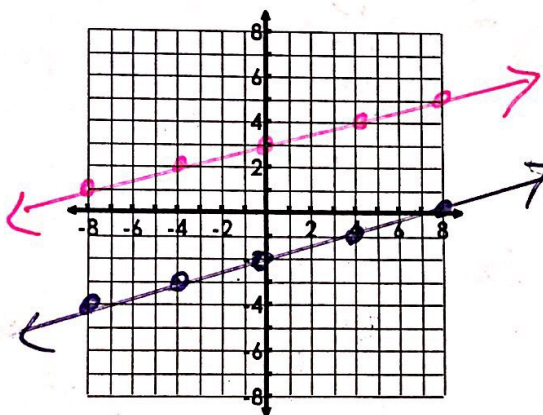
Solution = (3, 3)

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



Solution (-3, 1)

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



No Solution
 b/c parallel lines
 (with same slope)

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

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

No solution b/c parallel lines (same slope)

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

One Solution: $(6, -0.5)$

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

Solution: $(0, 1)$

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

Infinite Solution b/c lines are the same.

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

9)

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

Solution $(3, -3)$

10)

x	y = 2x + 4	y = 4x + 2
-2	0	-6
-1	2	-2
0	4	2
1	6	6

Solution: $(1, 6)$