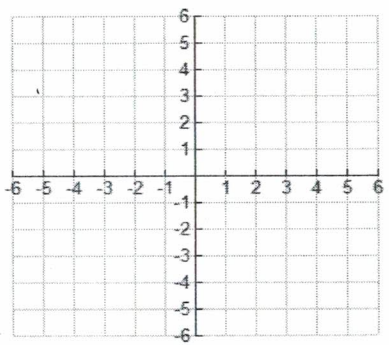
Math 2 – Unit 2.9 Linear and Quadratic Systems of Equations Hw WS Name: _____

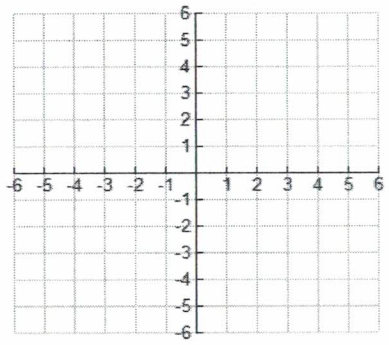
I. Solve each linear and quadratic system BY GRAPHING. State the solution(s) on the line. Must be ACCURATE!

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



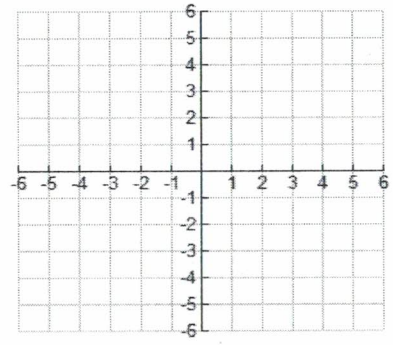
Solution(s): _____

2.) $\begin{cases} y = -x^2 - 6x - 6 \\ y = 3 \end{cases}$



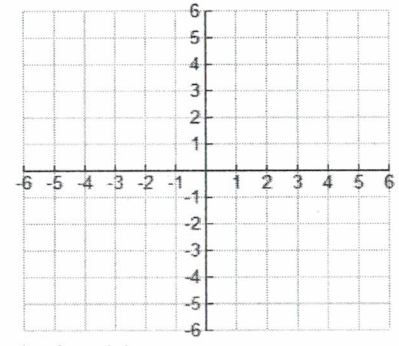
Solution(s): _____

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



Solution(s): _____

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



Solution(s): _____

II. Solve each linear and quadratic system BY SUBSTITUTION. State the solution(s) on the line. Must SHOW WORK!

5.) $\begin{cases} y = x^2 + 5x - 2 \\ y = 3x - 2 \end{cases}$ → Solution(s): _____

6.) $\begin{cases} y = -x^2 - 3x + 2 \\ y = x + 6 \end{cases}$ → Solution(s): _____

7.) $\begin{cases} y = -2x^2 - 4x - 1 \\ y = 2x + 4 \end{cases}$ → Solution(s): _____

8.) $\begin{cases} x + y = 5 \\ y + 1 = 3x^2 + 2x \end{cases}$ → Solution(s): _____

9.) $\begin{cases} x^2 + y - 8 = 0 \\ x + y - 2 = 0 \end{cases}$ → Solution(s): _____

10.) $\begin{cases} 5x + y = 2x^2 + 6 \\ y + 4x = 7x - 2 \end{cases}$ → Solution(s): _____