YL Honors Math 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 1 Lesson 3: Solving Systems of Equations by Graphing**

**Determine if the ordered pair(s) is a solution to the system of equations.**

1. $\left\{\begin{array}{c}6x-3y=-15\\2x+y=-3\end{array}\right.$ $(-2, 1)$ 2. $\left\{\begin{array}{c}y=x+8\\y=x^{2}+8x+14\end{array}\right.$ $\left(-6, 2\right) and (-2.5, 0.25)$

3. $\left\{\begin{array}{c}-2x+y=-11\\-x-9y=15\end{array}\right.$ $(6, 1)$ 4. $\left\{\begin{array}{c}y=2^{x}+3\\3x-4y=-17\end{array}\right.$ $(-1, 3.5)$

**Solve each system by graphing (by hand) on a separate sheet of graph paper.**

5. $\left\{\begin{array}{c}y=2x-4\\y=-\frac{1}{2}x+1\end{array}\right.$ 6. $\left\{\begin{array}{c}3x+6y=15\\-2x+3y=-3\end{array}\right.$

7. $\left\{\begin{array}{c}-x+y=9\\5x+6y=54\end{array}\right.$ 8. $\left\{\begin{array}{c}x+3y=12\\-x+3y=6\end{array}\right.$

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