Algebra 2 - Honors
Linear Regression Practice II

Name _____
Date _____ Hour _____

Solving Systems of Equations by Graphing Using Linear Regression Practice II

For each set of data, use the linear regression function on a graphing calculator to write a system of equations. Solve the system of equations by graphing. Explain what the x- and y- values of the solution represent for that situation.

Example 1 – School Enrollment

Year	School A	School B
2011	628	432
2012	632	436
2013	627	461
2014	621	477
2015	615	488
2016	612	498

Equation 1 (School A): _____

Equation 2 (School B): _____

Solution: _____

Explanation:

When can the schools expect to have the same enrollment? _____

What will the enrollment be? _____

Example 2:

You and a friend start a typing class at the same time. You measure your speed weekly in words per minute (WPM). The data is recorded in the table below.

# of Weeks	0	1	2	3
Your WPM	13	16	19	22
Your Friend's WPM	20	22	24	26

Equation 1 (Your WPM): _____

Equation 2 (Your Friend's WPM): _____

Solution: _____

Explanation:

After how many weeks can you expect to type as quickly as your friend? _____

What will the WPM be at that time? _____