***Algebra 2 Chapter 6 Investigation Write-Up Checklist:***

* Poster Board
* Picture of container
* Your prediction as to what polynomial would best represent the shape of your container, that is, what polynomial would best fit the graph of height of the water in your container verses volume of the water in your container.
* Total volume of your container
* Data you collected
* Scatter Plot on one full piece of graph paper. Photocopy this graph to get a 2nd page and then draw the possible polynomials you thought could fit the data in different colours.
* Your finite differences written up big and clear.
* The $r^{2} and r $values for your regression with an explanation as to what the numbers tell you.
* The final polynomial equation that best fits the data and the corresponding graph. Your graphing calculator will graph this equation for you. You can use the trace feature to find some exact points which will help you do an accurate sketch on the photocopied graph paper.

*If you have all of the above written up properly you will get an A. If you want an A+ you need to also do a regression by hand and include that on your poster board.*