Please complete your analysis by the beginning of the long period next week, 11/5 or 11/6. We will do quick presentations at that time, so think about how you could summarize your work succinctly.

Physical Deliverables

* A - An annotated write up of the derivation of the Least Squares linear fit.
* H - An annotated write-up of the extension of Least Squares to a quadratic fit, and an arbitrary polynomial fit.
* A - Do “by-hand” calculator for linear and quadratic fits with four points of your choice. Include a snip from an Excel document that confirms that your formulas match Excel’s trendline feature.
* J - Produce a reasonably documented, functioning machine implementation that can take a tab-separated text file (which will be provided to you) and produce any best fit polynomial up to degree 4. This implementation can be emailed or you can snip a graphic of the code and include it in a physical write-up. During class on the long period you will demonstrate that your best fit maker actually works.