

Empirical Data

Collect some sort of data in the form of ordered pairs of real numbers, then fit a curve to the result. You should consider polynomials of degrees up to 6, as well as (if possible) logarithmic, exponential and power function fits. Discuss the outcome.

Your data should have at least 50 points; the two variables should reflect something that you have *some* expectation of being related; each of the variables should have a significant amount of variability.

Examples of things NOT to do: find 50 people and ask them their shoe size and the last four digits of their Social Security number (not expected to be related); find 50 people and ask them how many fingers they have on their right hand, as well as how many fingers they have on their left hand (although these are probably related, there is not enough variability to get a good data set).