## Selection Sort – Descending Initialization

- The 11 data points indicate $O(n^2)$ relationship between list length and sorting time. The quadratic trendline fits the data with an $R^2$ value of .9999.
- Prediction for the time required for Selection Sort to sort a descending (reverse sorted) list of length 10,000,000: y(10000000)=79940.1126 seconds or 22.21 hours