Luke Canfield

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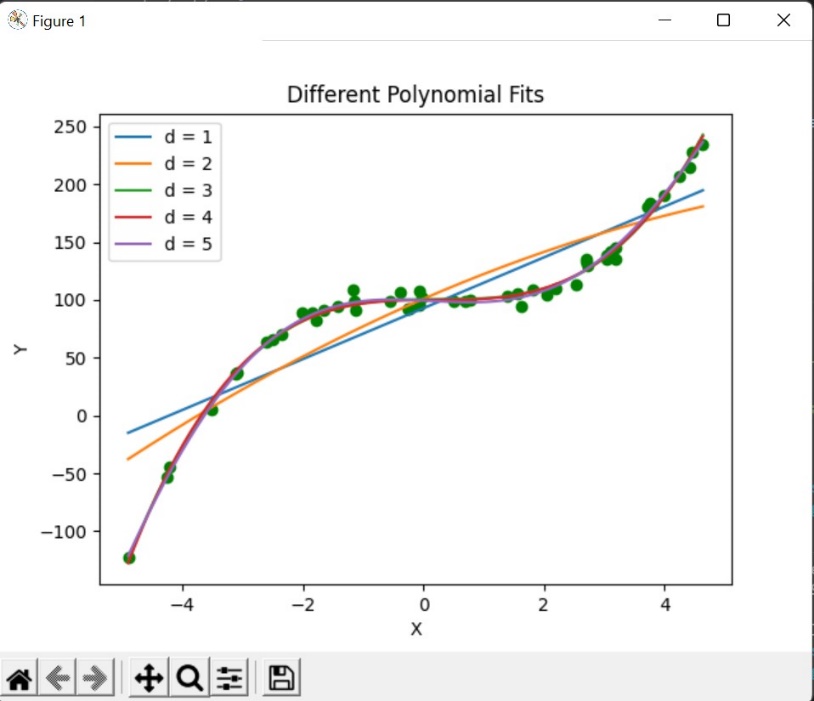
Purdue ID: 0032342067

Instructor: Chris Brinton

Problem 1 Write-Up

Estimated Functions

Data Visualization



The data appears to follow a fifth order polynomial the best. The fourth and fifth order polynomial almost appear identical but we know that theoretically that a higher order polynomial will have a smaller error. If we measure a new data point x = 2 the corresponding predicted value using the fifth order polynomial would by 107.775179