Aaron Templeton

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CS 3200

Assignment 4

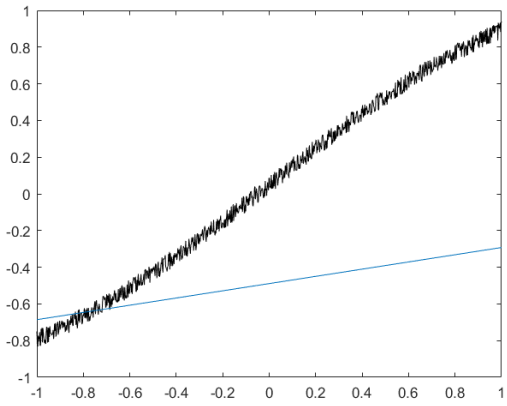
1a) see code file

1b) see code file

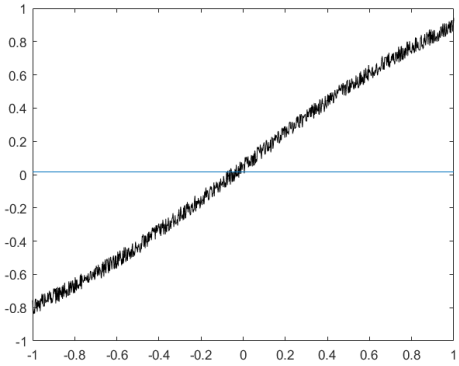
1c)

Graphs below are as follows:

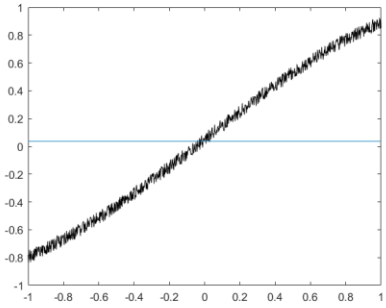
N=3, l=2



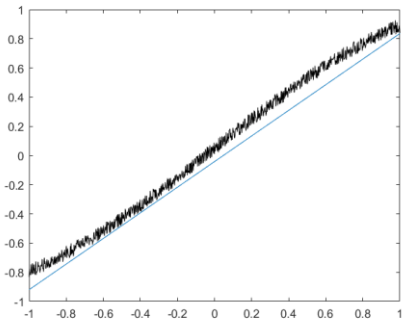
N=3, l=1



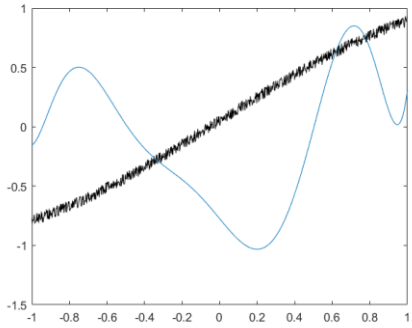
N=10, l=1



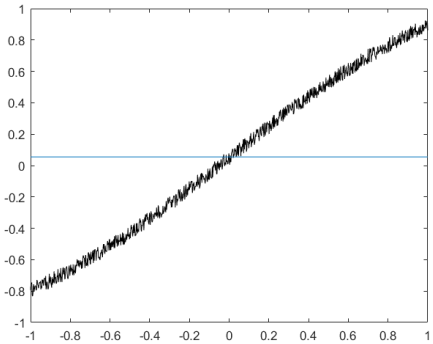
N=10, l=2



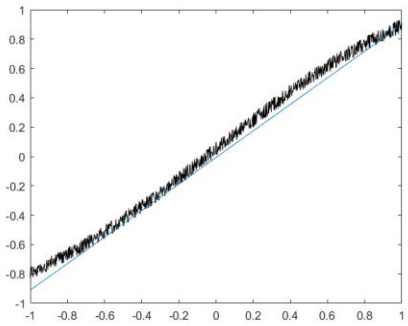
N=10, l=9



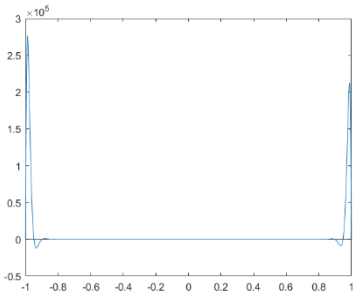
N=40,l=1



N=40,l=2



N=40,l=39



The closer L is to N, the better fit the graph is. If L is very far from N, the fit will not be accurate

1d) relative error should be measured against f(x). you should account for noise in data