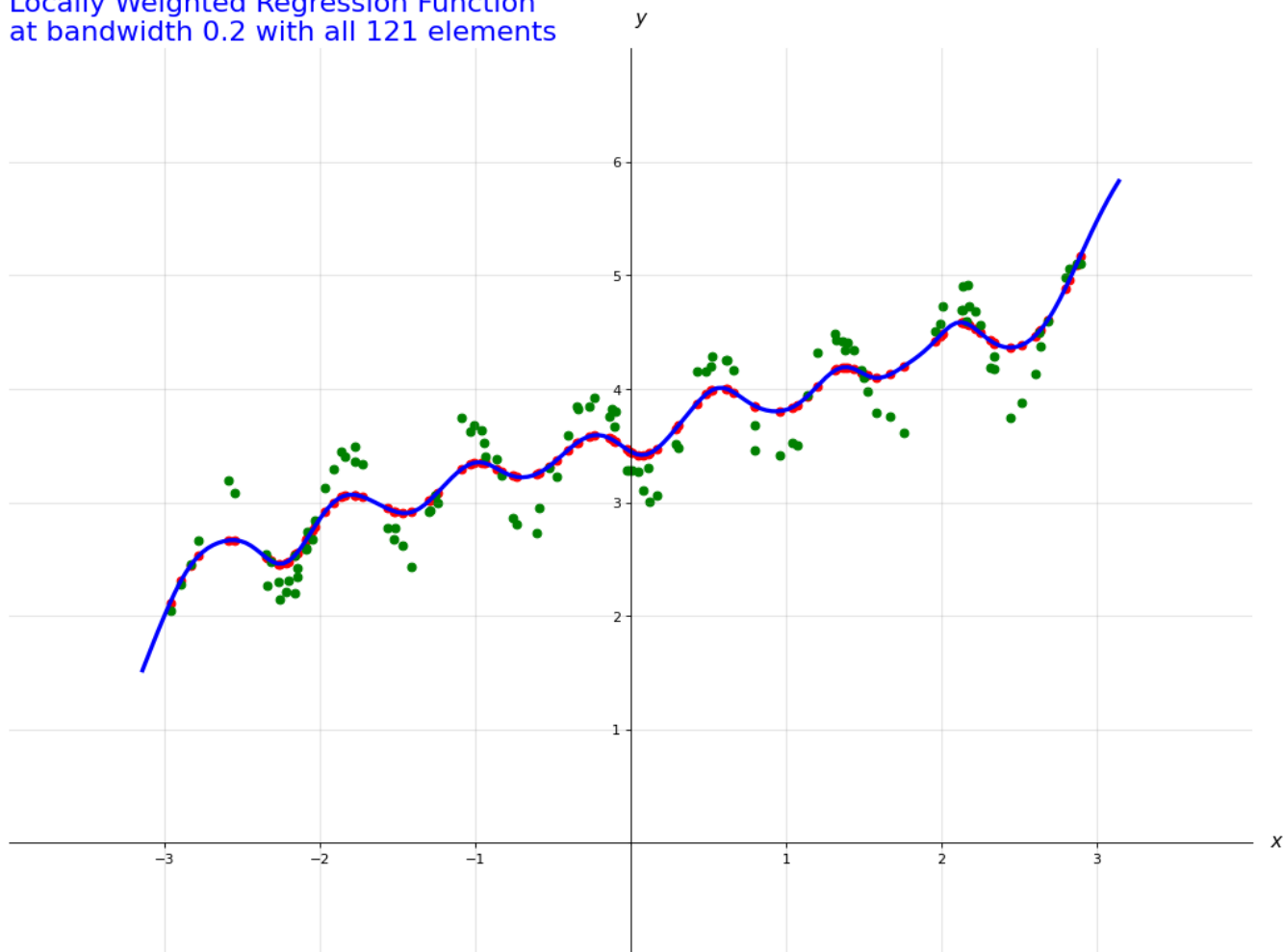


Result of Experiment 2(b):

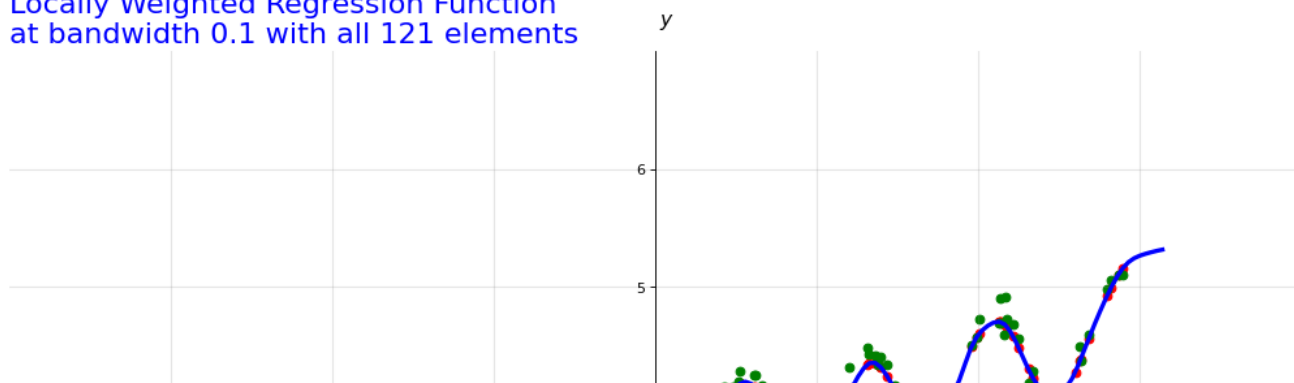
Printing the function obtain from Locally Weighted Linear Regression with bandwidth: 0.1

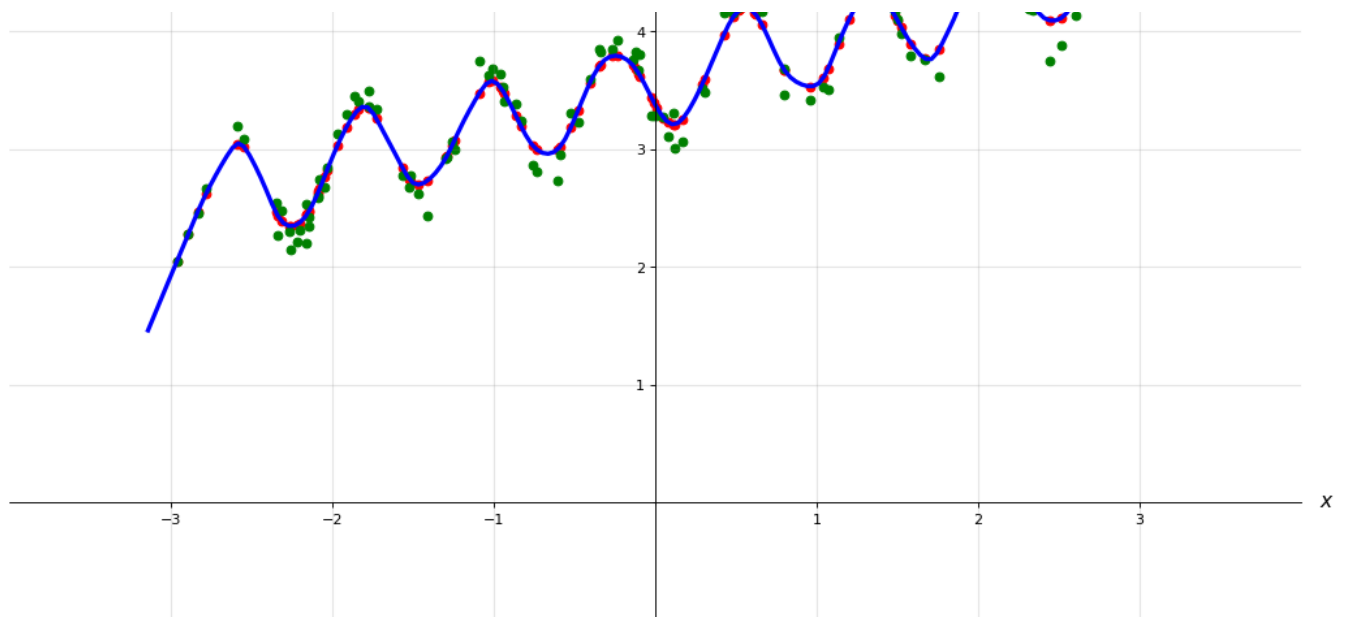
Locally Weighted Regression Function
at bandwidth 0.2 with all 121 elements



Printing the function obtain from Locally Weighted Linear Regression with bandwidth: 0.1

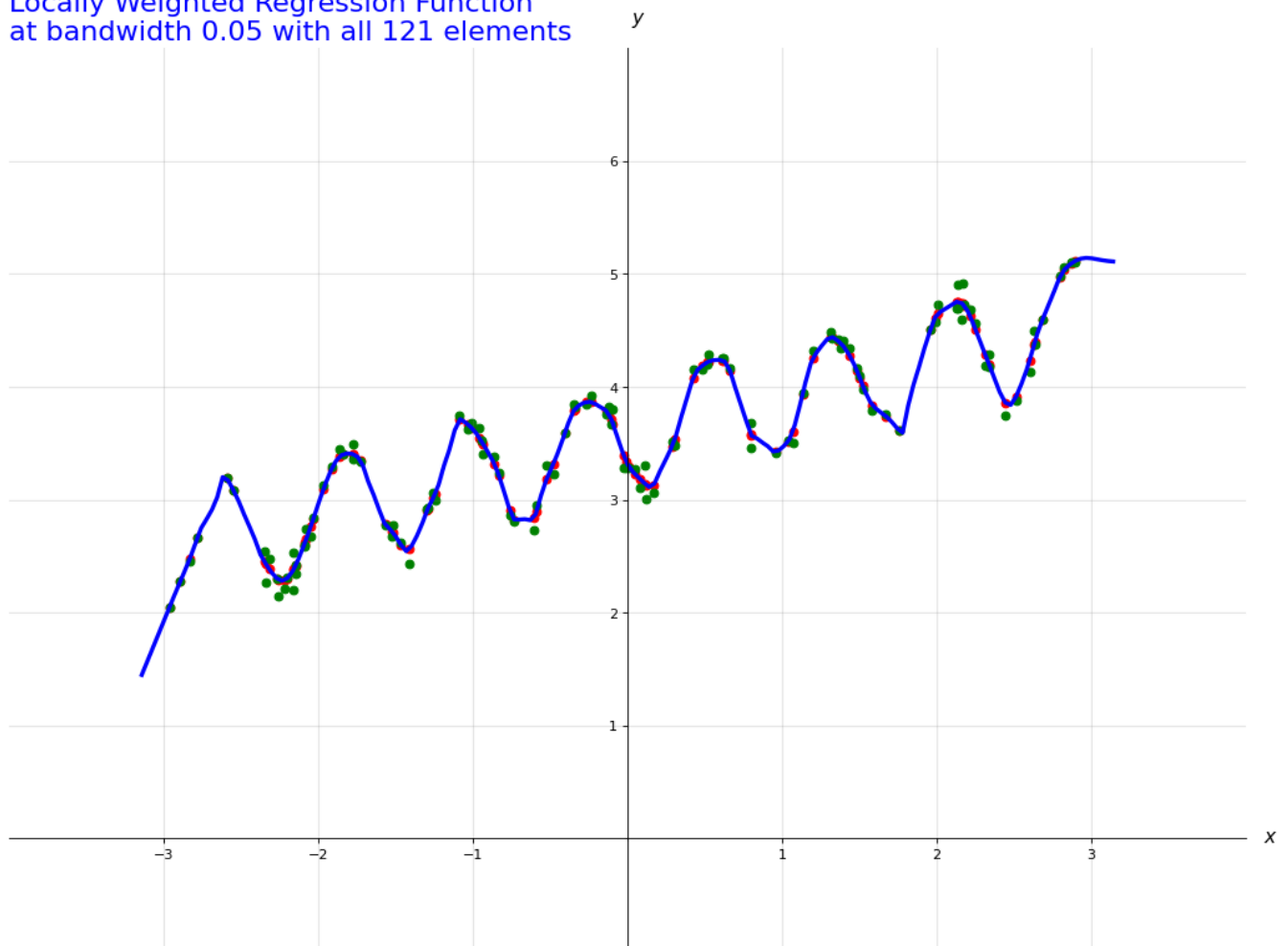
Locally Weighted Regression Function
at bandwidth 0.1 with all 121 elements





Printing the function obtain from Locally Weighted Linear Regression with bandwidth: 0.0

Locally Weighted Regression Function
at bandwidth 0.05 with all 121 elements



$\tau = 0.2$ was given in my data set. However, I experiment with two other τ value.

Result of Experiment 2(c):

Root Mean Square Error at bandwidth 0.2 : 0.26602181843162476

Root Mean Square Error at bandwidth 0.1 : 0.09125783878662365

Root Mean Square Error at bandwidth 0.05 : 0.051119902057451184

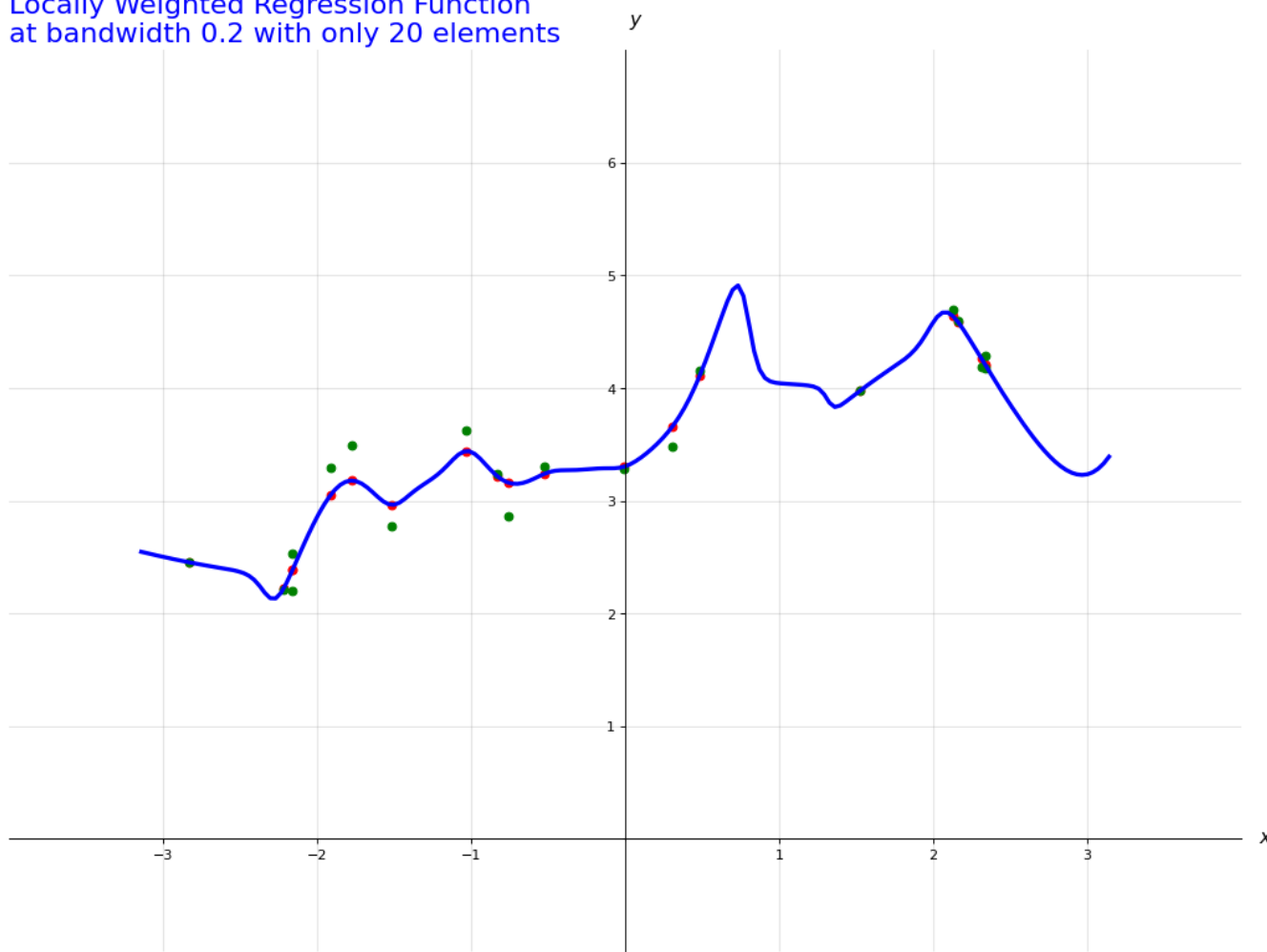
Function with minimum RMSE is at bandwidth: 0.05

Result of Experiment 2(b) and 2(c) only with dataset of 20 elements(Question 1(d)):

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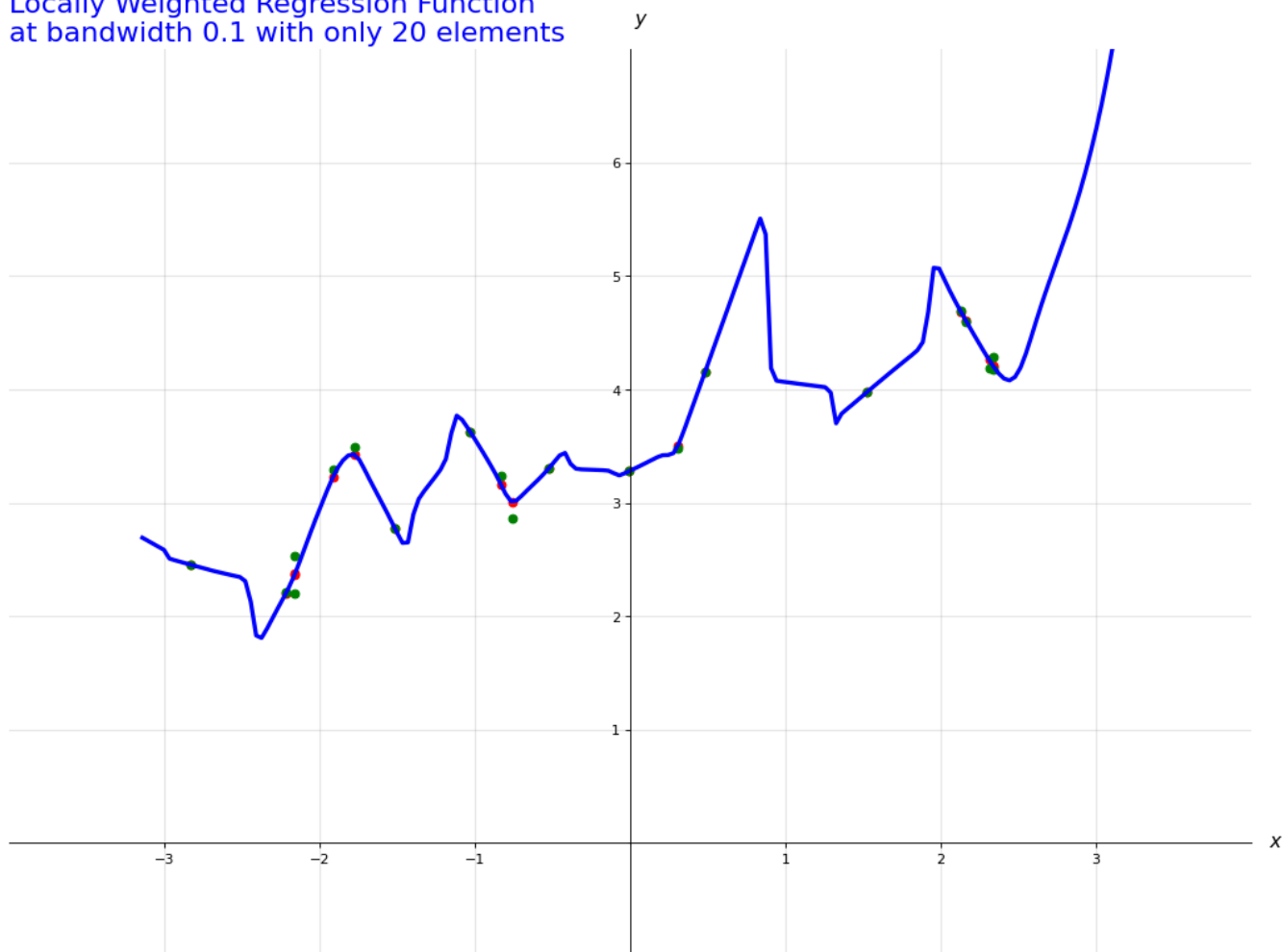
Printing the function obtain from Locally Weighted Linear Regression with bandwidth: 0.1

Locally Weighted Regression Function
at bandwidth 0.2 with only 20 elements



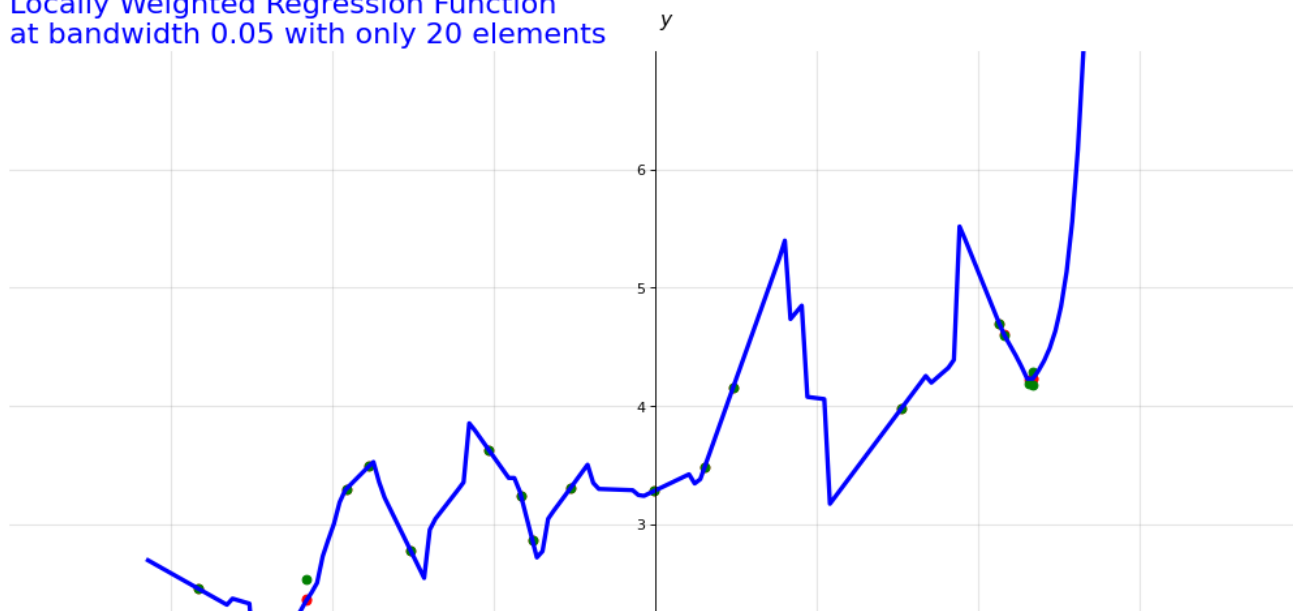
Printing the function obtain from Locally Weighted Linear Regression with bandwidth: 0.1

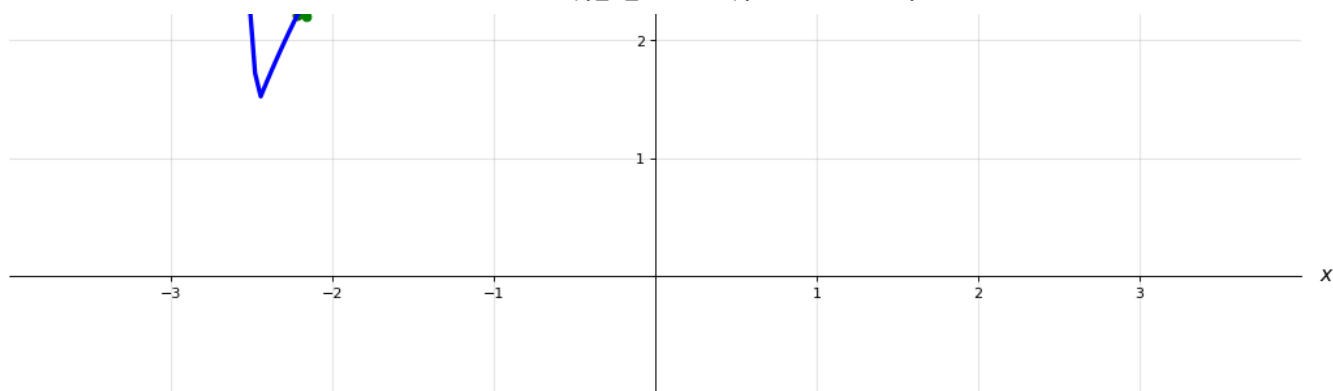
Locally Weighted Regression Function
at bandwidth 0.1 with only 20 elements



Printing the function obtain from Locally Weighted Linear Regression with bandwidth: 0.0

Locally Weighted Regression Function
at bandwidth 0.05 with only 20 elements





tau = 0.2 was given in my data set. However, I experiment with two other tau value.

Result of Experiment 2(c) only with dataset of 20 elements(Question 1(d)):

Root Mean Square Error at bandwidth 0.2 : 0.5069822483765044

Root Mean Square Error at bandwidth 0.1 : 0.41868090432596927

Root Mean Square Error at bandwidth 0.05 : 1.4558245340177527

Funtion with mimimum RMSE is at bandwidth: 0.1