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Problem1\_writeup

Estimated Functions:

Y1(x) = 52.1581x – 189.866

Y2(x) = 7.00158x2 + 9.30386x – 239.334

Y3(x) = 8.20138x3 + 0.261767x2 – 0.010328x – 175.277

Y4(x) = 0.005988x4 + 0.755218x3 + 0.234559x2 + 1.17636x – 175.880

Y5(x) = 0.000853x5 – 0.00469x4 + 0.752811x3 + 0.526084x2 + 0.965916x – 176.837

Data Visualization:

A close up of a map

Description automatically generated

Discussion:

The data seems to best follow the fourth and fifth order polynomials, but the fifth order slightly more.

If a new data point were given, x=2, we predict Y5(2) = -166.827