**2.5 Linear Regression on Calculators**

The following table shows the boiling point of water at various elevations.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Elevation (ft) | 0 | 2000 | 4000 | 6000 | 8000 | 10000 | 12000 |
| Temperature (°F) | 212° | 208.4° | 204.8° | 201.1° | 197.4° | 193.6° | 189.8° |

1.) Use your calculator to create a scatter plot of the data. Make sure you pick a “good” window to view the plot. Show the scatter plot to Mr. Nohner.

2.) Describe the correlation.

3.) Use your calculator to find the line of best fit.

4.) Use the line of best fit to predict the boiling point of water in Denver, CO. Hint: Denver is the mile high city because its elevation is 1 mile above sea level (5280 feet).

5.) Water boils in Delano at approximately 210.3678857°. Use the line of best fit to find the approximate elevation of Delano.