

ME205: An Exercise in Interpolation

Consider the following data set.

Time (s)	Temperature (degrees C)
0	76.6
115	72.4
245	77.1
380	81.1
498	74.5

1. Use linear interpolation to estimate the temperature at $t = 200$ s.
2. Use quadratic interpolation to estimate the temperature at $t = 200$ s.
3. Use the Scilab function "[spline](#)" to estimate the temperature at $t = 200$ s, using cubic splines and the default arguments for the function "spline."

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