

MATH 371-02 (192)
MATLAB # 4
Due Mar. 10, 2020

Write a MATLAB code to create the Natural Cubic Spline. The code will use the MATLAB built in backslash operator to solve the system $Ax = b$.

Modify your code to find the Clamped Cubic Spline.

Use your code to form both the natural and the clamped spline to approximate

$f(x) = \sin(x)$ on the interval $[0, \pi]$ using the two interior points $\frac{\pi}{3}$ and $\frac{2\pi}{3}$.