

# ASSIGNMENT 8

Due April 13, 2004 (before start of class)

## Problem 8

Do computer problem 7.6 on p. 337 of Heath.

Modify the `monomial.m` program for part (a) and make use of the `cubicSpline-NaturalF` function for part (b). Create a graph containing a plot of the exact square root function (in black), the 9 data points to be interpolated (in red), a plot using the result of a monomial basis interpolation (in blue), and a plot using the result of cubic spline interpolation (in green).

Submit a hardcopy as well as an electronic copy of your Matlab program. Name the file using your Utopia account username. For example if your Utopia username is `wbush01@utopia.poly.edu`, then name the file `wbush01.m`.