MATH.2720 Introduction to Programming with MATLAB Homework on Two-Dimensional Plots, Part 2 (Due 2/26)

Please email me a script file containing the commands you used to answer these questions.

- 1. Plot the function $f(x) = \cos(x)$ for $-2\pi \le x \le 2\pi$ and mark the points (0,1), and $(\pi,-1)$ with circles.
- 2. Add symmetric error bars to the graph you just generated using error bars of half-width 0.2 and 0.3 for the two points.
- 3. Use the fplot command to graph the function $f(x) = \sin(\ln(x))$ for $1 \le x \le 10$.
- 4. Download the script file temp_data.m from the *Class Handouts* page on our course web site and run the file. This will generate a 181×1 array named Temp. Generate a histogram with 11 bins for the data in this array. Label the horizontal axis Temperature (F) and label the vertical axis Number of Days.

(This file contains the daily high temperature at UMass Lowell for the dates January 1, 2014, through June 30, 2014. The data come from Dr. Colby in the EEAS Department.)