

Homework #5

ENGR0012 – Spring 2009

Due: Tuesday , February 10

Do problem 1 on page M-148 of the text book. In the problem description when it says have an m-file do this or that, it is understood that this implies that all the additional m-files are function calls. That is they all, except for the main, should have the “function” command on the first line in the m-file.

For this assignment I want you to clean up all the programs you wrote this semester and make them efficient. For example, you can use the polyfit, polyval, sort, sum and other commands. If it is cleaner to use a menu then an input, then make the change and use the menu. If a switch/case makes more sense than an if structure then change it. Also be careful when you name your functions. Do not use existing Matlab command names. For example, for your plot function do not call it plot.m.

Deliverable:

Each group should turn in a folder that contains the data sets, the plots, the Matlab scripts.

Note: Your script must have a header section in comments that identifies:

Team members

Engineering 0012 T,H 00:00-00:00

Instructor:

Date:

Assignment number (i.e., Homework 5)

Statement of the purpose of script

Throughout the script use comments to define the purpose of every variable.

Also, you will be graded on programming style. Use whitespace, comments, indenting, etc.

Hint:

This is going to be a very long program. Layout the logic before you start, and built the program in sections. Do you have existing programs that you can reuse? Make sure each section works before you go onto the next step. If you design your script by following the numbered list above you might find it helpful. Have fun!!!