Problem:

Due: February 9, 2017

You are given a set of open-loop data obtained by sending a random signal of amplitude ± 1 to the input of a process. The data is available on the course website as data2017.mat. It contains the input u and the output y. Note that the system is low order, has a bit of delay and is corrupted by noise.

- 1. Using the Matlab system identification toolbox, develop a satisfactory model of the process from those data. Justify your choice of methods, model structure and chosen model.
- 2. Repeat the above, but this time using a recursive implementation of your estimator of choice. Show time plots of the recursive parameter estimates thus obtained. Attach your *.m file.