MATH 569   HOMEWORK 6

Due: May 1st, Monday, 11:59pm

How to submit: via Blackboard

If you have multiple files, upload a zipped file

Problem 1 Ex. 8.1

Problem 2 Ex. 8.3

Problem 3 Ex. 8.4

Problem 4 Ex. 11.2

Problem 5 Ex. 11.3

Problem 6 Write a program to implement the neural network model of Net-2 in figure 11.10, and fit the neural network to the **zipcode** data. Compare the results to logistic regression on classification performance. The **zipcode** data are provided. Due to the large size of the dataset, you are only considering the classification of three digits, 0, 1, and 2. Use a 70-30 split for training and testing data.

Using library functions is acceptable.