STA6329 Exercise 6 Due October 19 (Monday, Before class)

1. Problem 2(a) of Chapter 9. (p.126) (Hint: First show that if $\boldsymbol{A}'\boldsymbol{A}\boldsymbol{X} = \boldsymbol{A}'\boldsymbol{A}\boldsymbol{Y}$, then $\boldsymbol{A}\boldsymbol{X} = \boldsymbol{A}\boldsymbol{Y}$.)

2. Problem 3 of Chapter 9. (p.126)

3. Problem 5 of Chapter 9. (p.127)

4. Problem 8 (a) and (b) of Chapter 9. (p.128)

SAS Problems (Please hand in your sas program and list file.)

The dataset for this class is stored at:

http://www.stat.ufl.edu/∼yang/STA6329/datasets.htm

by clicking the data names (blue color). Save them as data files in your directory. This is supposed to be the dataset you get from your client. You need to read the descriptions, but should not modify them in any way.

5. Refer to the **AIRPORTS** dataset. Write a SAS program to read the data file from your diskette with an INFILE statement, store a permanent SAS dataset on your diskette, and print the dataset. There should be five variables (three character and two numeric) and 20 observations.

6. Refer to the **LIMES** dataset. Write a SAS program to read from the data file the first 25 observations with an INFILE statement and print the dataset. Treat the month, day, and year as one variable representing the date.