

Math 483, Fall 2009. Homework 8

Due November 5

NAME _____

From the Book:

Section 5.1: 3, 5

Section 5.2: 2

Section 5.4: 4, 7, 12, 19

Problem A

For the iris data (see http://infohost.nmt.edu/~olegm/483/Rhistory/R_iris.txt),

- (a) find the 95% confidence interval for the average sepal length of *Setosa* species.
Are we justified in using Normal distribution for sepal lengths?
- (b) Find the 90% confidence interval for the standard deviation of sepal lengths of *Setosa* species.
- (c) Find the 90% confidence interval for the ratio of standard deviations of sepal lengths for *Setosa* and *Versicolor* species. Can we conclude that the standard deviations are different for the two species?