Homework 4

Math 483 Fall 2019

due: Sept. 19, 2019 by 5pm

Problems from the Book

Chapter 5: 4, 7, 9, 14, Extra Credit: 16.

Problem A.

The measurements of an irregular signal's frequency are known to have the mean of 20 Hz and standard deviation of 5 Hz. 50 independent measurements are done.

a. Approximate the probability that the average of these 50 measurements will be above 21.

b. Find an interval that would contain $\overline{X}$ with the probability around 90%.