

Homework Assignment #8

Instructor: Professor Chung-Chin Lu

Basic Problems:

The basic problems are for you to prepare the quiz on the Monday class. Please do not turn in their solutions.

Part I: Read Section 5.1 of the textbook and Section 5.1 of the Lecture notes.

Part II:

p. 224: Problems 5.1, 5.3.

p. 227: Theoretical Exercise 5.1.

pp. 229-230: Self-test Problems and Exercises 5.1, 5.2, 5.5.

Developed Problems:

Please turn in your solutions on **November 14th Wednesday** in class. The TAs will check the similarity between homework solutions to detect improper conduct such as plagiarism.

pp. 224-225: Problems 5.4, 5.5, 5.10, 5.11.

For Problem 5.11, you have to specify the probabilistic model (S, \mathcal{F}, P) . And if a real-valued function $X: S \rightarrow \mathbb{R}$ will be used to solve the problem, you have to show that X is a random variable.