

Homework Assignment #7

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.

pp. 172-175: Problems 4.48, 4.51, 4.75.

(For Problem 4.75, you have to specify the probabilistic model (S, F, P) and show that X is a random variable.)

p. 180: Theoretical Exercise 4.4, 4.28.

pp. 183-184: Self-test Problems and Exercises 4.14, 4.20, 4.23. (The solution for 4.23 on pages 483-484 is concise. You have to specify the probabilistic model (S, F, P) and show that X is a random variable.)

Developed Problems:

Please turn in your solutions on **November 7th Wednesday** in class. The TAs will check the similarity between homework solutions to detect improper conduct such as plagiarism.

pp. 109-110: Problems 4.43, 4.60, 4.85.

pp. 180-182: Theoretical Exercise 4.34.

For Problems 4.43, 4.85 and Theoretical Exercise 4.34, you have to specify the probabilistic model (S, F, P) . And if a real-valued function $X: S \rightarrow R$ will be used to solve the problem, you have to show that X is a random variable.