

MATH 6214: MEASURE AND INTEGRATION THEORY
HOMEWORK 6

Due: 11:59 PM, Friday, Oct 19, 2023

- Please type your homework in \LaTeX
- Submit your homework in a single pdf file to Blackboard before the due
- Discussions with classmates are encouraged. However, all of you need to write your own version.
- Copying other people's homework is strictly forbidden. For the first violation, you will get a warning. If it occurs again, then you will get 0 for that homework.
- The notation $(x.y)$ behind **Problem** means this problem is in Royden's book Chapter x and problem number y .
- One only needs to submit **Assigned Problems**.
- **Suggested Problems** might show up in exams.

ASSIGNED PROBLEMS

Problem 1. 6.2

Problem 2. 6.8 (b) (Assuming Young's inequality is true.)

Problem 3. 6.10

SUGGESTED PROBLEMS

(FOR PRACTICE ONLY YOU DO NOT NEED TO SUBMIT)

Problem. 6.1, 6.4, 6.7