

**520 SPRING 2025 PROBLEM SET #5**

**Problem 1.** Chapter 4 exercise 1 in Stein and Shakarchi.

**Problem 2.** Chapter 4 exercise 2 in Stein and Shakarchi.

**Problem 3.** Chapter 4 exercise 6 in Stein and Shakarchi.

**Problem 4.** Chapter 4 exercise 7 in Stein and Shakarchi.