Kiril Datchev
MA 546
Spring 2025

Homework 4

Due February 12th on paper at the beginning of class. Please let me know if you have a question or find a mistake. The book is Reed and Simon's *Functional Analysis*.

1. Do problem 21 from Chapter II. (Assume that μ is a probability measure.)

2. Do the three exercises at the top of page 2 of `https://www.math.purdue.edu/~kdatchev/546/meanergodic.pdf`, and also the exercise at the top of page 3.