

Math 525, Winter 2008, Homework 1

The following homework is due Wednesday, January 16.

1. Problem 4, page 88 of Folland.
2. Problem 5, page 88 of Folland.
3. Problem 7, page 88 of Folland.
4. Show that the distance function $d(\mu, \nu) = |\nu - \mu|(X)$ is a metric on the vector space of signed measures on (X, \mathcal{M}) .
5. Problem 10, page 92 of Folland.
6. Problem 11, page 92 of Folland.
7. Problem 17, page 93 of Folland.