Math 524, Autumn 2007, Homework 7

The following homework is due Wednesday, November 14.

1. Show that, if $f$ and $g$ are integrable, real valued functions on a measure space $X$, then

$$\int (f + g) \, d\mu = \int f \, d\mu + \int g \, d\mu$$

(You know this is true for nonnegative functions, and that you can split up $X$ into different regions as convenient, by 2.13 b & d.)

2. Problem 14, page 52 of Folland.


5. Problem 26, page 59 of Folland.