

Problem Set 10

This week: Please read Chapter 10 in the Strauss text.

DUE: Thurs. Apr. 9 in class. [Late papers will be accepted until 1:00 PM Friday.]

1. Find Green's function for the boundary value problem $u'' = f(x)$ for $-1 \leq x \leq 1$ with $u(-1) = 0$ and $u(1) = 0$. [In class we did this for the interval $0 \leq x \leq 1$.]
2. p. 240 #1
3. p. 240 #3
4. p. 240 #5
5. p. 240 #6
6. p. 240 #11
7. p. 370 #1

Bonus Problem

[Please give this directly to Professor Kazdan]

B-1 Strauss p. 234 #8

[Last revised: April 3, 2015]