MAT 1060: Partial Differential Equations I
Assignment 5, November 4 2009

Read Section 3.4 and Sections 5.1-5.3. Please hand in to Ehsan on Wednesday, November 18:

- Chapter 3 (p. 162): Problems 7, 10, 13, 14.

- Chapter 5 (p. 289): Problem 6.

- Additional problem: Consider the function $f(x) = |x|^{-\alpha}$ on the unit ball $B(0, 1) \subset \mathbb{R}^n$. For what values of α, n, and p is $f \in W^{1,p}$?