MA633 Partial Differential Equations II
Spring 2012
Problem Set 1
January 18, 2012
DUE: Monday, 30 January 2012

1) Prove parts (ii) and (iii) of Theorem 1 on page 261 in Evans.
2) Problem 4, page 306 of Evans, on $W^{1,p}(\mathbb{R}^1)$.  
3) Problems 5-6, page 206 of Evans, on the existence of smooth characteristic functions and partitions of unity.