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

(1) Prove parts (ii) and (iii) of Theorem 1 on page 261 in Evans.
(2) Problem 4, page 306 of Evans, on $W^{1,p}((0,1))$.
(3) Problems 5-6, page 206 of Evans, on the existence of smooth characteristic functions and partitions of unity.