MA633 Partial Differential Equations II
Spring 2012
Problem Set 5
March 30, 2012
DUE: Wednesday, 11 April 2012

(1) Problem 2, page 365 of Evans, on Lax-Milgram when there is no drift term.
(2) Problem 3, page 366 of Evans, on the existence of weak solutions to the biharmonic problem.
(3) Problem 4, page 366 of Evans, on Neumann boundary conditions.
(4) Problem 11, page 367 of Evans, on weak subsolutions.