

**MA533 Partial Differential Equations**

**Fall 2011**

**Problem Set 5**

**October 19, 2011**

**DUE: Wednesday, 2 November 2011**

- (1) Evans, page 87, # 14, second edition, on the heat equation with a term  $cu$ .
- (2) Evans, page 87, # 15, second edition, on the one dimensional heat equation on a half line.
- (3) Evans, page 88, # 17, on subsolutions to the heat equation.