

## HW #2b

### Math 182, Spring 2009

Due Friday, February 6, 2009, by 11:00 a.m.

1. Solve

$$u_x + 3x^2u_y = 0, u(0, y) = \sin(3y).$$

2. Solve

$$u_x + 3x^2u_y - u = 0, u(2, y) = 3y + 1.$$

3. p. 58, problem 2.2.