Math 135, HW 1

Due Wednesday, January 14th

- 1. Find the general solutions of the following equations:
 - (a) y'' y' = 0
 - (b) y'' + y = 0
 - (c) y'' + 4y' + 4y = 0
 - $(d) y'' + y = e^x$
- 2. Find the solution of the following initial value problem:

$$y'' + 4y' + 4y = 0, y(0) = y'(0) = 1$$

- 3. Section 17, Problem 4
- 4. Section 17, Problem 8
- 5. Section 18, Problem 3