

HOMEWORK 11
DIFFERENTIAL EQUATIONS
DUE 2013-10-03

Show your work!

- (1) Solve the initial-value problem

$$y'' + y' + 9.25y = 0, \quad y(0) = 2, \quad y'(0) = 8$$

using the method of §3.1 (*not* §3.3). Your answer will involve complex numbers.

- **Six** book problems: #3.2.5, 10, 26, 32, 35, 45. For #3.2.45, you will need to read #3.2.41 (but you do not have to solve it). It may also help to recall handout problem #1 on Homework 10.