Mathematics 255—February 1, 1996

Fourth homework—due Friday, February 9

Exercise 1. Find solutions of the following differential equations plus initial conditions:

Differential equation	$y(0)$	$y'(0)$
$y'' + 3y' + 2y = 0$	0	1
$y'' + 4y' + 4y = 0$	0	1
$y'' - 3y' + 3y = 0$	0	1
$y'' + 2y' + 2y = 0$	1	0
$y'' + 2y' + 2y = 0$	0	1
$y'' + 2y' + 2y = 0$	1	1
$y'' + 9y = 0$	0	1

Exercise 2. Graph each of the solutions you get in #1 in the range $[0, 10]$. Use a spread sheet to do a nice job.