Math 325: Differential Equations   Name:_____

Quiz 8   *March 30, 2001*

You may use your own calculator. You may not use anything else. You may not pass a calculator to another person.

Show all your work. Erase or cross out any work you do not want graded.

Find the eigenvalues and eigenfunctions of the problem

$$y'' + \lambda y = 0, \qquad y'(0) = 0, \ y'(L) = 0.$$

You may assume that all eigenvalues are real.