Math	301-161	Quiz 5	(A)	)
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Q:1 (5 points) Find eigenvalues and eigenvectors of the boundary value problem

$$y'' + 2y' + \lambda y = 0$$
 with  $y(0) = 0$  and  $y(1) = 0$ .

Q:2 (5 points) Find eigenvalues and eigenvectors of the boundary value problem

$$x^2y'' + xy' + \lambda y = 0$$
 with  $y(1) = 0$  and  $y(e) = 0$ .