coursera

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ODE Eigenvalue Problems

(a) Show that the equations

$$X'' + \lambda X = 0, \quad X(0) = X(L) = 0$$

have no nontrivial solutions for $\lambda \leq 0$.

(b) Solve the following equation for $X = X(x)$ with given boundary conditions:

$$X'' + \lambda X = 0, \quad X'(0) = X'(L) = 0.$$

✓ **Completed**

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