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Abstract

In this study we have created Hilbert Space of The Sturm-Liouville Boundary Value Problem in $[0, \pi]$ interval, with boundary conditions which has λ complex eigenparameter. We have shown symmetric of appropriate operator to the problem. We have obtained asymptotic of solution functions and asymptotic of wronskian of the solution functions by using them. Moreover, we have examined Green function and asymptotic expansion of eigenvalues.

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