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the solution is $u(x) = a+bx$. The boundary condition $u(0) = 0$ means that $a = 0$, but the boundary condition $u(L) = 0$ then means that $b = 0$, whence $u(x) = 0$ for all x . Clearly this is a very uninteresting solution. Let us consider j , imaginary. Then the solution is now $a\exp(j, jx) + b\exp(-j, jx)$. Again the boundary conditions force $a = b = 0$. Therefore we are left with

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Integral transform - Wikipedia

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