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then using the condition that  $\psi$  must be square integrable and the possible values of the energy calculate the corresponding normalized wave functions we can find  $\psi$  by using the schrodinger equation  $\frac{d^2 \psi}{dx^2} + k^2 \psi = 0$  we only need to look at  $\psi$  at a single time so let's look at the case  $\psi(0, t)$

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