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so any linear combination of such wave functions is also a valid solution to Schrödinger's equation therefore we conclude that equation 7.68 satisfies equation 7.61 and equation 7.69.

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1 a find the normalization constant  $A$  b find the probability that the particle can be found on the interval  $0 \leq x \leq l$ .

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wavefunction  $\psi = \sqrt{2} \sin \pi x$  is valid for the range  $x = 0$  to  $1$  the probability of an electron in the range  $x = \frac{1}{2}$  to  $1$  is a)  $0.5$  b)  $0.75$  c)  $0.82$  d)  $1.0$

view answer in a linear chain all the atoms have equal mass but are connected alternatively by springs of force constants  $f_1$  and  $f_2$

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mechanics we have seen that the state of a quantum particle subject to a scalar potential  $V(r)$  is described by the time dependent schrödinger equation  $i\hbar \frac{\partial}{\partial t} \Psi(r,t) = \hat{H} \Psi(r,t)$  where  $\hat{H} = -\frac{\hbar^2}{2m} \nabla^2 + V(r)$  denotes the hamiltonian to explore its proper web

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