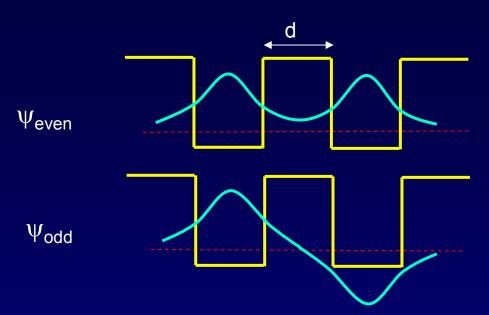
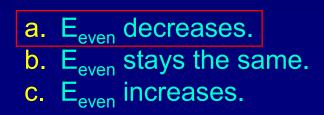
Solution



What will happen to the energy of ψ_{even} as the two wells come together (i.e., as d is reduced)? [Hint: think of the limit as d \rightarrow 0]



As the two wells come together, the barrier disappears, and the wave function spreads out over a single double-width well. Therefore the energy goes down (by a factor of \sim 4).

