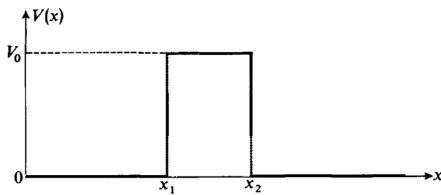
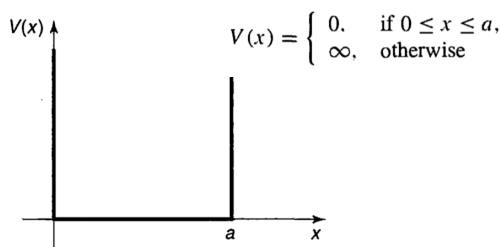


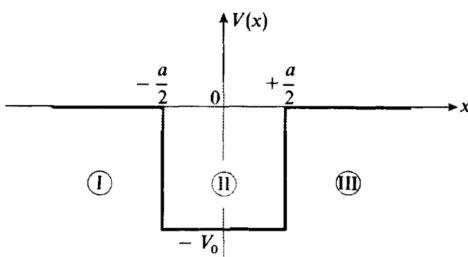
1) Consider a particle of energy E which, coming from region of negative x , arrives at the potential “step” of height V_0 shown in the figure. Find the probability of reflection and transition for $E > V_0$ and $E < V_0$.



2) Consider a particle of energy E which, coming from left side of barrier. Find the transition probability for $E < V_0$.



3) Find the energy levels and wave-function of particle.



4) Find the bound state energy level of particle in the quantum well.