

Homework 6 (10)

1. Calculate the wave functions and the energies of one - dimensional infinite well. Calculate also the discontinuity of the first derivative of the wave functions.
2. Calculate the ground state energy of the narrow finite potential well.
3. Find the bound - state energy levels of a one - dimensional particle in the potential $V(x) = -a\delta(x)$ with $a > 0$.
- 4* . Problem 3.5