Phys 402: Applications of Quantum Mechanics

Homework VII (Total 2 problems; due 930am, Thursday, March 17, 2016]
[To receive full credits, please show all necessary steps that lead to your answers.]

1) Prob. 9.2 (Page 343, textbook. Understand the time dependent perturbation theory, implications.)

2) Prob. 9.3 (You can approximate the delta potential as a square potential in time i.e. H'=0 when t<-T/2, or t>T/2; H'=U/T other wise and take T to be zero. Note that the time integral of H' is equal to U, the strength of the delta potential.)