Birzeit University
Department of Physics
Quantum Mechanics I, Phys433
Fall 2020
Homework 2: Due date Oct. 12th 2020

1. A potential V(x) is given as:

$$V(x) = \begin{cases} 0 & \text{if x} < 0 \\ -V_0(x-L)/L & \text{if 0} < \text{x} < \text{L} \\ 0 & \text{if L} < \text{x} \end{cases}$$

   Assume A particle of energy E and mass m is coming from the left. Find the transmission and reflection probability.

2. Solve the following problems in the book 2.43/2.45/2.47/2.53