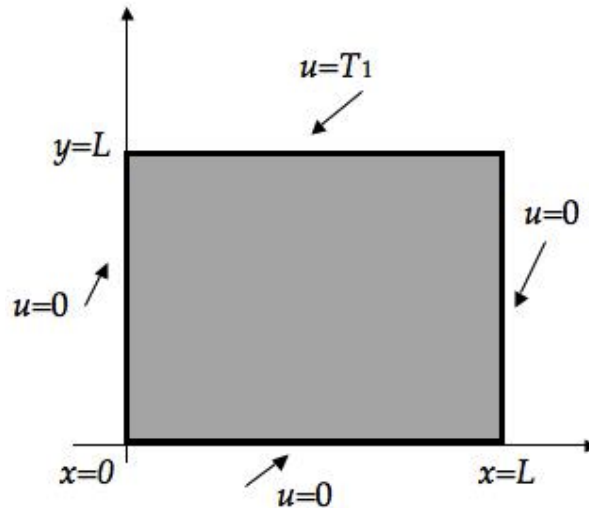


PHYSICS 502
4th HOMEWORK
Dr. V. Lempesis

Hand in: Sunday 12th May 2013

1. The three sides of the following plate are kept at zero temperature, the other one is kept at a constant temperature T_1 . Find the temperature of the plate at the steady state.



2. If in problem 3, all the sides are kept at constants temperatures T_1 , T_2 , T_3 and T_4 respectively, could you suggest a way to find the temperature of the plate at the steady state?