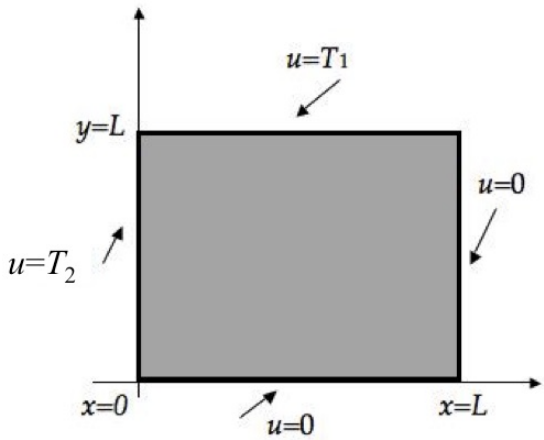
PHYSICS 501
5th HOMEWORK
Dr. V. Lempesis

1. In the case shown in the figure two sides are kept at constants temperatures T_1, and T_2 respectively. Find the temperature of the plate at the steady state? (Hint: The linearity of the differential equation describing our problem allows you to consider the solution of the problem as the linear combination of the solutions two different problems. One in which only the one side ($y = L$) is at T_1 and the other with only the side (x=0) is at temperature T_2.)



For the girls: Please send your answers in pdf form (typed or in clearly handwritten form) in my email address (vlempesis@ksu.edu.sa). Please use ONE file for your entire homework NOT one file per page. Please do not forget to put your name and your ID number on it AND on your file name.
Your deadline is on Sunday 2nd of November 2018 at 23:59.

For the boys: You will hand in your homework in hard copy in class on Monday 3rd December.