

**Instruction:** The task can be carried out individually or in groups of two, and should be presented orally (**code demonstration in the class**) and **upload the code on moodle**. Late submissions carry a minor penalty. Plagiarism checks will be performed on all code.

1. Generate a 2D mesh as shown in Figure 1, where  $\Delta x = \Delta y$ , i.e. equidistant mesh or maintain constant grid size.

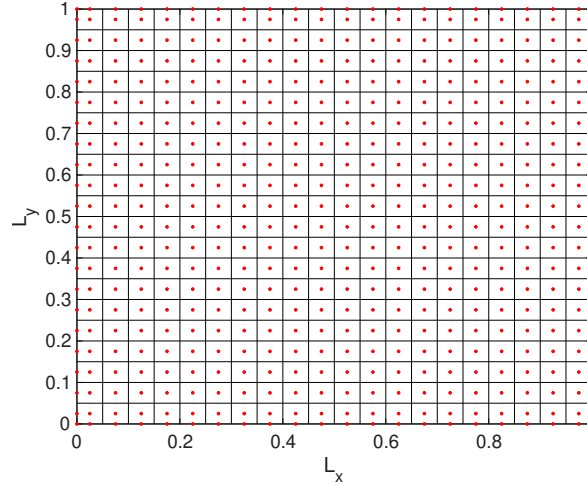


Figure 1: Equidistant mesh.

2. Now stretch the mesh as shown in Figure 2, where  $\Delta x$  and  $\Delta y$  are varying in size.

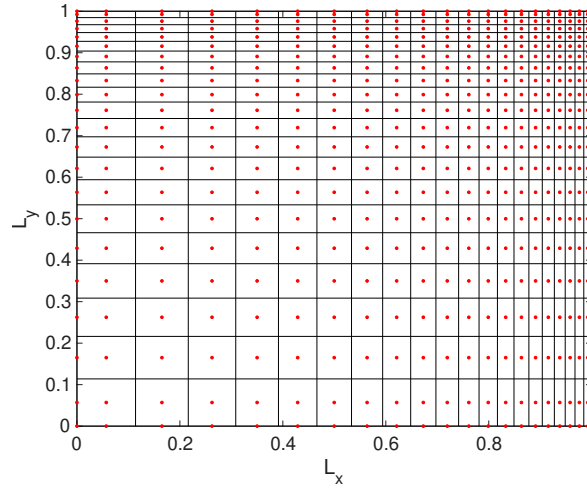


Figure 2: Stretch mesh.