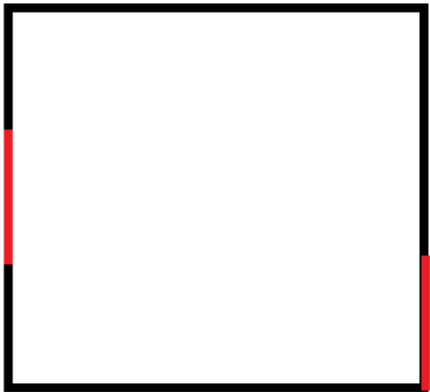







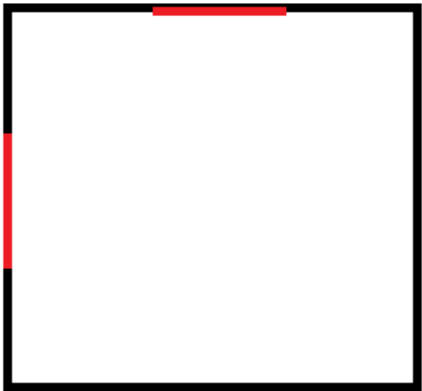












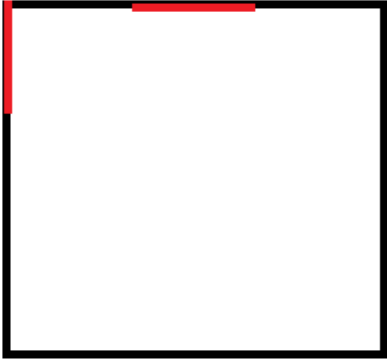
Find numerical solution (tridiagonal matrix method) of two-dimensional Laplace equation





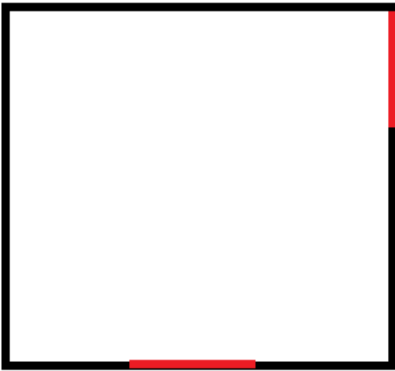

$$\frac{\partial^2 P}{\partial x^2} + \frac{\partial^2 P}{\partial y^2} = 0$$

with the following boundary conditions:

1		2	
3		4	
5		6	

7		8	
9		10	
11		12	
13		14	

15	 A square with a thick black border. The top edge has a red segment in the middle, and the bottom edge has a red segment on the left side.
16	 A square with a thick black border. The left edge has a red segment in the middle, and the bottom edge has a red segment on the right side.
17	 A square with a thick black border. The top edge has a red segment on the left side, and the right edge has a red segment in the middle.
18	 A square with a thick black border. The left edge has a red segment in the middle, and the right edge has a red segment in the middle.
19	 A square with a thick black border. The top edge has a red segment on the right side, and the left edge has a red segment in the middle.
20	 A square with a thick black border. The top edge has a red segment in the middle, and the left edge has a red segment in the middle.

21		22	
23		24	
25		26	

27



28



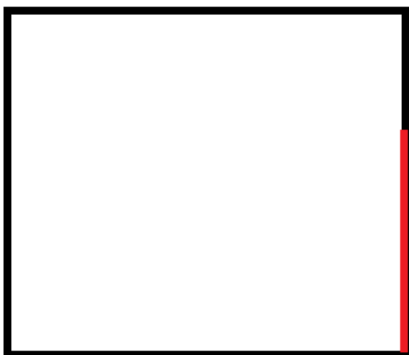
29



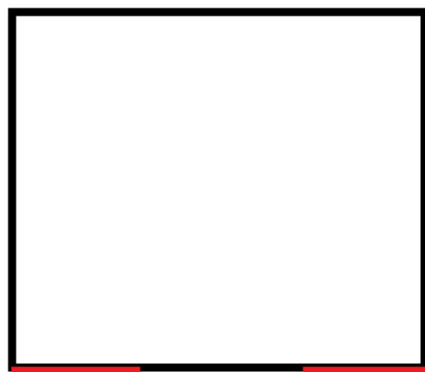
30





31



32



33		34	
----	---	----	--