Asunon 1

$$U_{xx} + V_{yy} = \frac{U_{i+1,j} - 2 u_{i,j} + U_{i-1,j}}{\Delta_{x^2}} + \frac{u_{i,j+1} - 2 u_{i,j} + u_{i,j-1}}{\Delta_{y^2}}$$

Ax = Sy = h

$$C = \alpha \frac{1}{1} = \frac{\alpha}{1} = \frac{\alpha}{1} = 0.5$$

$$u_{i}^{n+1} = u_{i}^{n} + \left(\frac{c}{2} + \frac{c^{2}}{2}\right) u_{i+1}^{n} + \left(-\frac{c}{2} + \frac{c^{2}}{2}\right) u_{i+1}^{n} - c^{2} u_{i}^{n}$$

$$u_{i}^{n+1} = (1 - 0.25) u_{i}^{n} + (0.25 + 0.125) u_{i}^{n} + (-0.25 + 0.125) u_{i}^{n}$$

Eto Scappappa par voviar ta stiffestuna zou hubi ros ja