

Equação de difusão do CaBr 2D

$$\frac{\partial u}{\partial t} = \alpha \left(\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} \right)$$

Onde:

$u(x, y, t)$: Temperatura no ponto (x, y) em um dado instante t .

Condição inicial: $u(x, y, 0) = 0$

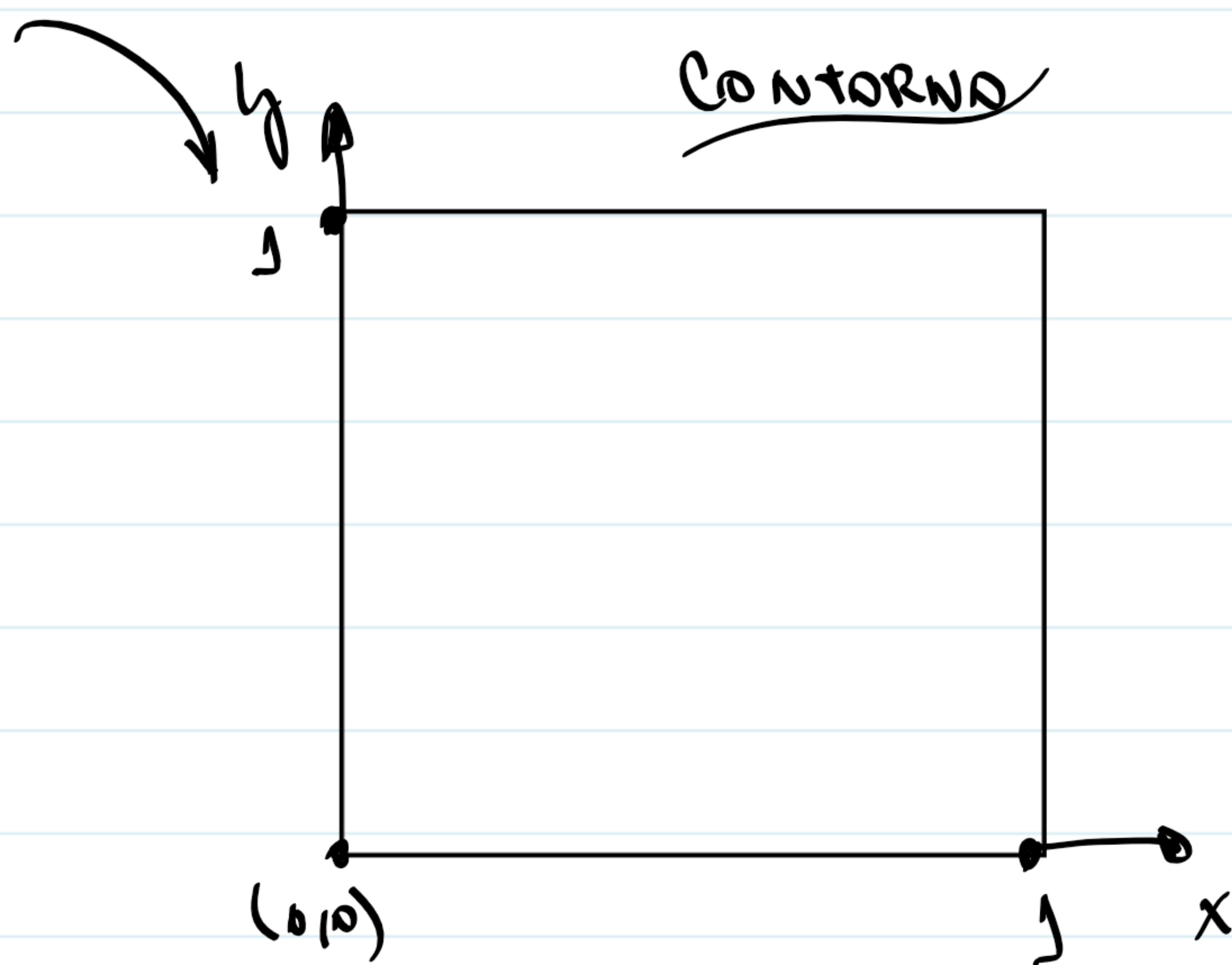
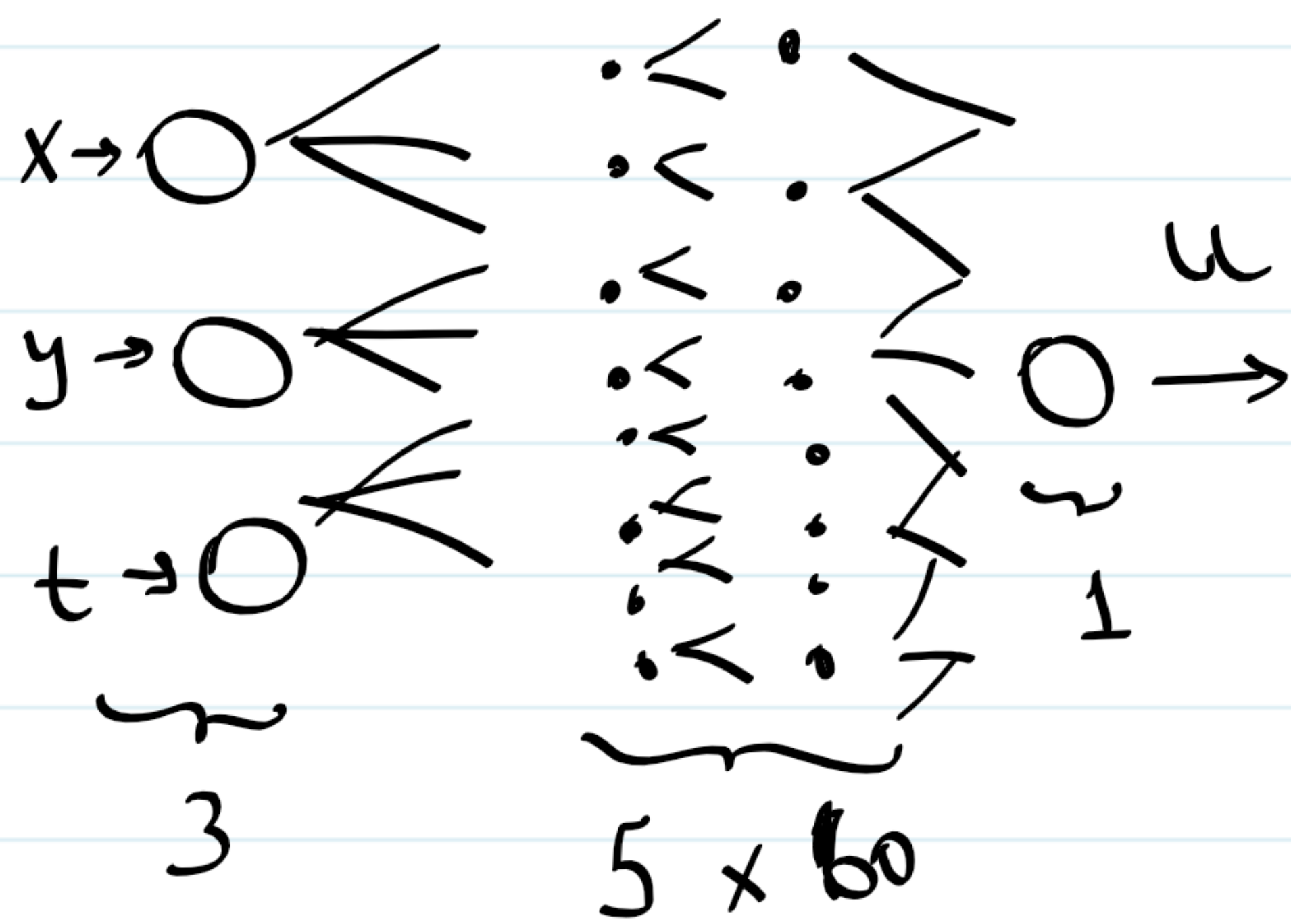
Condições de contorno:

$$\begin{aligned} u(0, y, t) &= 0 \\ u(1, y, t) &= 0 \\ u(x, 0, t) &= 0 \\ u(x, 1, t) &= 1 \end{aligned}$$

Onde: $x, y, t \in [0, 1]$

$\Delta t = \alpha = 0.01$

Rede Neural



$$\delta(w \cdot x + b) = \tanh(w \cdot x + b)$$

$$L = L_{pde} + L_{BC-e} + L_{BC-n} + L_{BC-d} + L_{BC-\mu} + L_{IC}$$