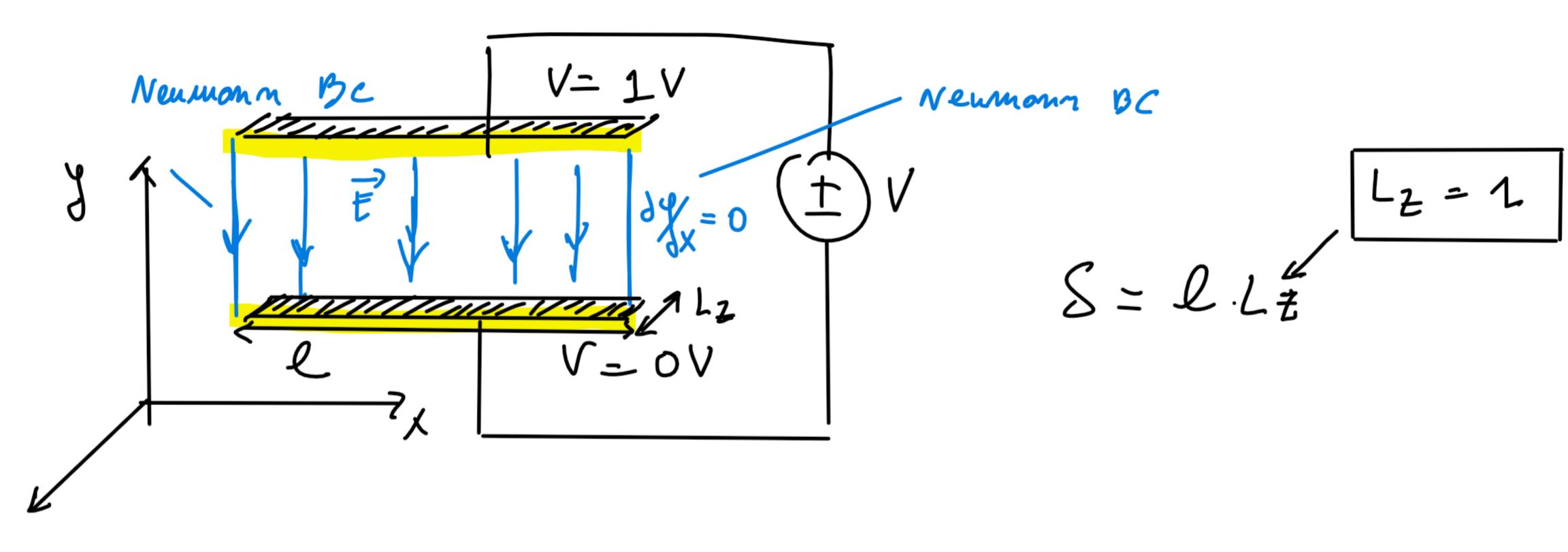
munewich method and  $ext{der} = P$   $evor_1 = M h P$ ,  $h = \Delta x, \Delta y$ if  $h_1$ ,  $h_2$   $evor_2 = M h_2 P$   $evor_2 = M h_2 P$   $evor_3 = (M_{h_2})^P$   $evor_4 = (M_{h_2})^P$   $evor_5 = (M_{h_2})^P$   $evor_6 = (M_{h_2})^P = P lu (M_{h_2})^P$ 

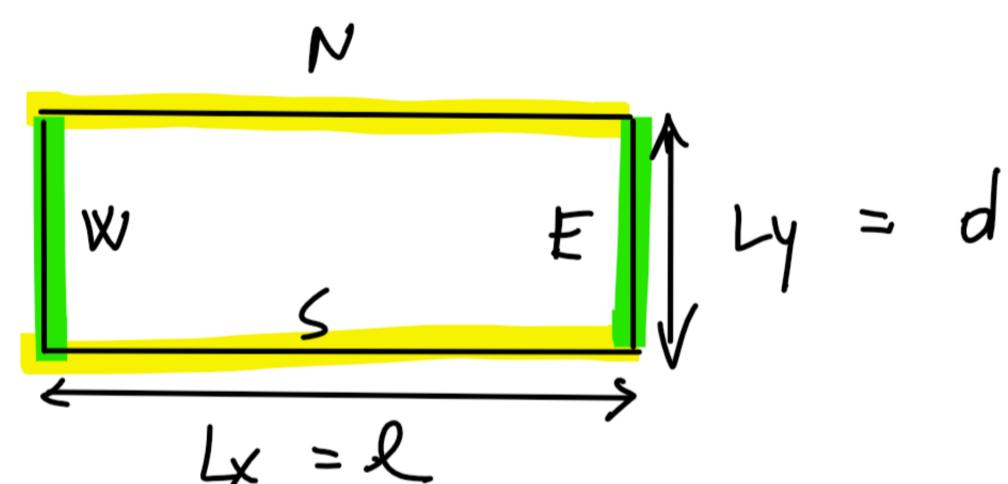
> try to vERIFY this with the code!

P = lu (evrz)

lu (h1/h2)

-> compute order of convergence method Homew ork





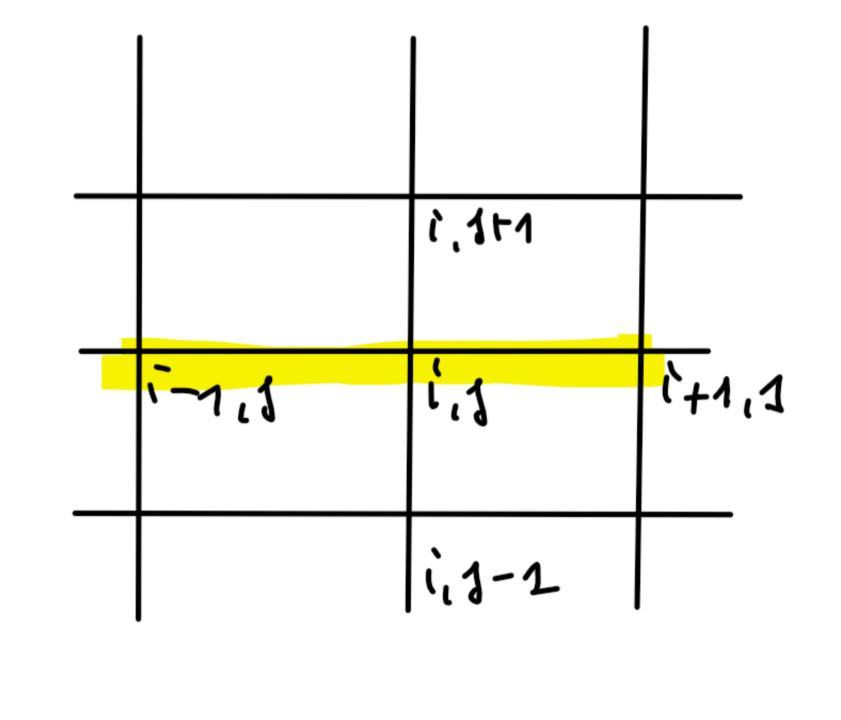
$$S = 2 \cdot L_{z} \quad [m]$$

$$W = \int \frac{1}{2} |E^{2}| dV$$

$$\int dx dy dz$$

OPTION 2: 
$$S = Q$$

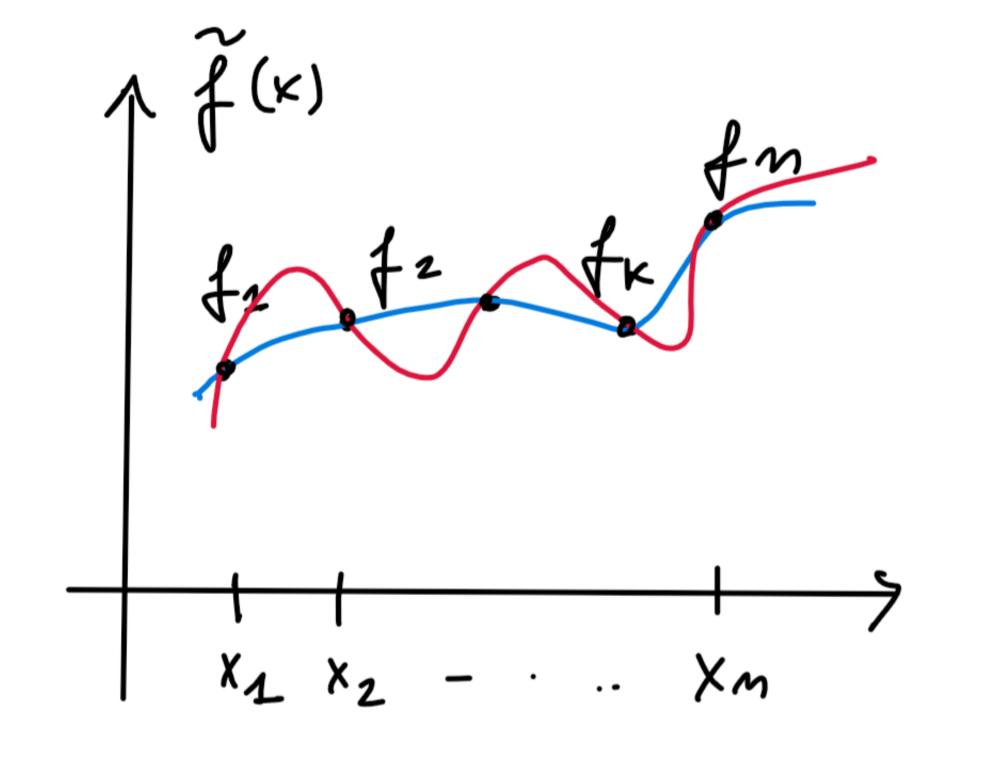
$$W = \int \frac{1}{2} |E^2| dS$$



## Interpolation

Inf: process of constructing an approximate function f(x) that ESTIMATES volues of f(x) given a set of known volues of f(x)

$$[x_1,f(x_1); x_2,f(x_2); --- x_n,f(x_n)] \Rightarrow f(x)$$



$$f_1 = f(x_1)$$

$$f_2 = f(x_2)$$

$$\vdots$$

$$f_K = f(x_K)$$

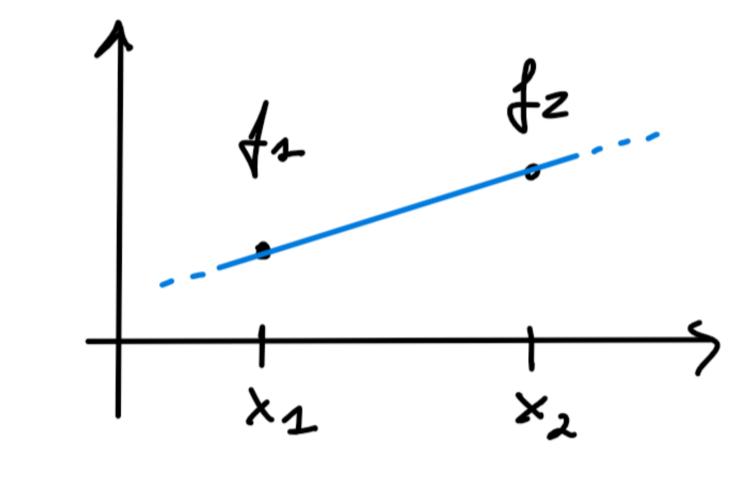
$$f_n = f(x_M)$$

fx(x)

## . Polynomial Interpolation

 $\widetilde{f}(x) = a_0 + a_1 x + a_2 x^2 + - - + a_k x^k + - - - + a_{m-1} x^{m-1}$ 

Polynomial of order: n-1; n-dota pints



I obta pointy

I straight line => polynamiol ordere 1  $\widetilde{f}(x) = \alpha_0 + \alpha_1 x$