Comp Sci, Feb 21,2023 $\frac{dx}{dt} = f(x,t)$ clisonetie x-> xi t-> ta' t = { to, ti, -. ton} 1 = 0/1 - M 1t = tfinal - timitial = tn-60 Xi+1 = x(ti+st) = xi + st. ODEnt f (xí, trí) Yi'+1 = Xi' +st. ODE int (xi, ti') For the newal network Xi defines in part Xi+1 - 1- output (targets) $X_0 = flust input$ $X_1 = -1 - output$ X1 = 2md mpat Xe = -1- cutpat Xn-1 fingl cutput

Convolution & Found Series

$$(f*g)(x) = \int f(x-g)g(g)dg$$

$$f = F(g) \land g = F(g)$$

$$f = \int (fg)(x) = \int (fg)$$

