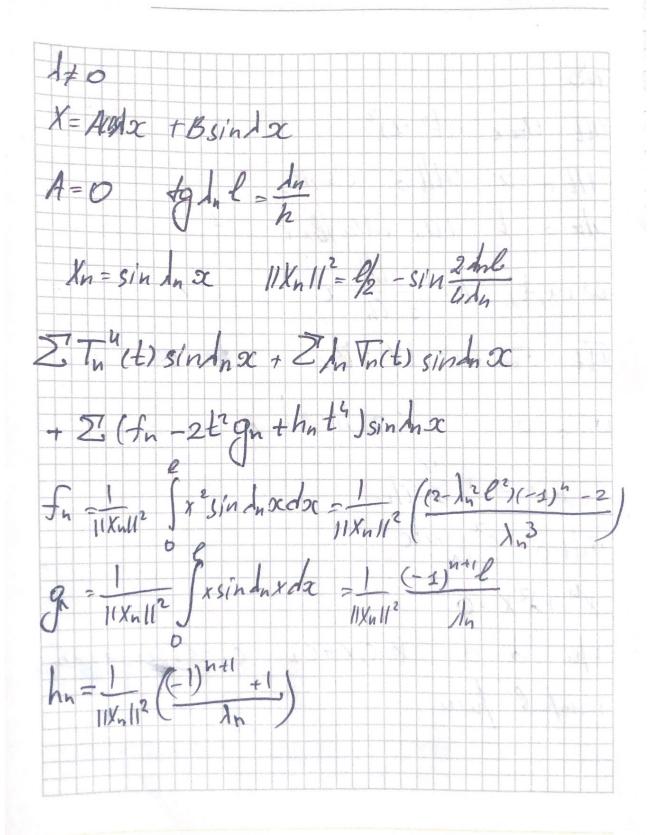
N3  $U = U x x + (t^2 - x)^2$ 4/4-0=2 4+4+0 =exsinx ulz=0=t (uz-huz)lx=e w (x, t) = t + -1+ht 2 Oft = Uxx + x2 + 24-212x (Ux-hu)/x-e=0 Of-0 = 2 + x-lh Jilto = e sinx X4 + 12 X =0 nhu 1-0 X=C,X+C2 C1 = (2=0 => 40 m nemper beer.



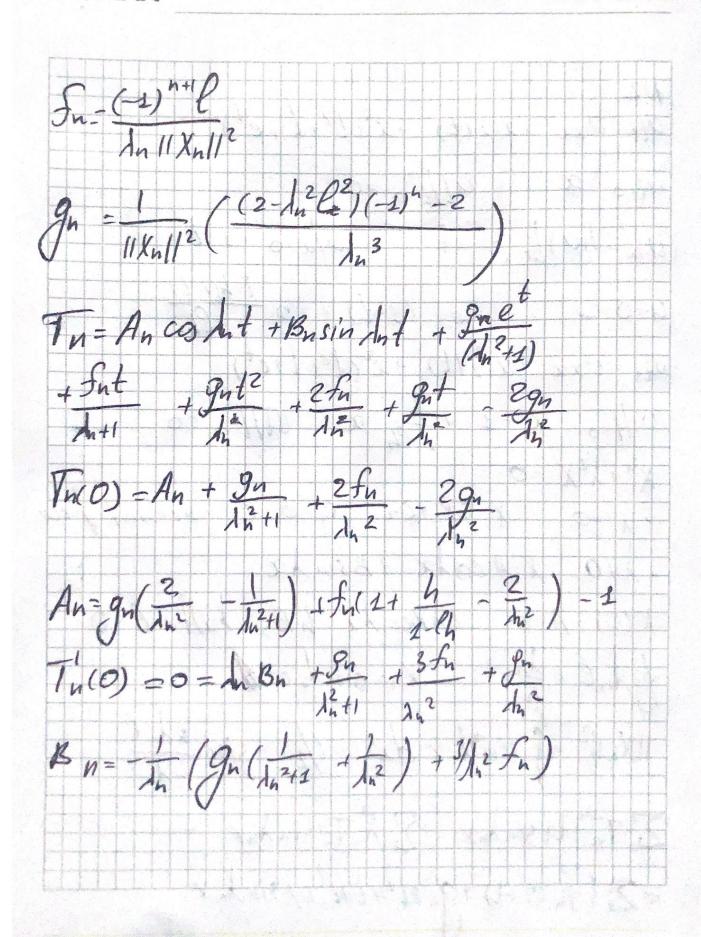
Uff = Uxx + t3 +x +2 + e2 Celt-0 = x35/noc Ut1 = Vax + t3+24 t2 + ex+2 Ux0 00 ) Ux1x=0-0 JE=0 = X SINX-X Uf H=0 = cosx X4+ 12 X=0 · )=0 X=GKKi, C, =C2 -0 uem hempub here X = Acos la + Bsinla 1Bcos/C=0 A = 0 16= \$ +oth In = +7(1+2n)

$27T_{h}^{4}(t) sin \ln x + 2I_{h}^{2} T_{h}(t) sin \ln x =$ $2(f_{h}t^{2} + g_{h}(t^{3}-2) + h_{h}) sin \ln x$ $\int_{h} = \frac{2}{e} \left( (-1)^{h} (-\lambda_{h}^{4} \ell_{h}^{4} + 12\lambda_{h}^{2} \ell_{2} - 24) + 23 \right)$ $\int_{h} = \frac{2}{e} \left( (-1)^{h+1} + 1 \right)$ $h_{h} = -\frac{2}{e} \left( e^{l} \ln (-1)^{h} \lambda_{h} \right)$ $\int_{h} \frac{2}{h} = \frac{2}{e} \left( e^{l} \ln (-1)^{h} \lambda_{h} \right)$ $\int_{h} \frac{2}{h} = \frac{2}{e} \left( e^{l} \ln (-1)^{h} \lambda_{h} \right)$	$X_{n} = \sin A_{n} \propto$ $11X_{n}11^{2} = 9/2$	
$ \begin{cases} q_{n} = \frac{2}{e} \left( \frac{(-1)^{n+1}}{1} + \frac{1}{2} \right) \\ h_{n} = -\frac{2}{e} \left( \frac{e^{2} \ln (-1)^{n}}{1} + \frac{1}{2} \right) \end{cases} $		
$l_{n} = \frac{2}{e} \left( \frac{e l_{n} (c_{1})^{2}}{h_{n}^{2} + 2} \right)$ $l_{n} = \frac{2}{e} \left( \frac{e l_{n} (c_{1})^{2}}{h_{n}^{2} + 2} \right)$ $l_{n} = \frac{2}{e} \left( \frac{e l_{n} (c_{1})^{2}}{h_{n}^{2} + 2} \right)$	$ \int_{n} = \frac{2}{e} \left( (-1)^{4} (-1)^{4} \ell^{4} + 12 \ln^{2} \ell_{2} - 24) + 25 \right) $ $ \int_{n} = \frac{2}{e} \left( (-1)^{4} (-1)^{4} \ell^{4} + 12 \ln^{2} \ell_{2} - 24) + 25 \right) $	
Tu + 12 T - f 12 +0 (13-2) +h.	$h_n = \frac{2}{e} \left( \frac{e^{\ell} \ln (-1)^n}{\ln n} \right)$	
Thirt) = An coulant + Bn sindat + In 12   ga t3   29 m + ha - 2 fa - 6 ga t	$ \nabla n + \lambda n \nabla n = fnt + gn (t^2-2) + hn $ $ \nabla n (t) = An coulnt + Bn sin lnt + fn 1^2 + gn t^3 $	2gh

2 fn > 2 hn Tn (0) = An 2 (X2sinx-x)sin/2 dx + 29n -Tn(0) = InB - 694 = 2 Coxsindaxdx  $+\frac{2}{e}\int cosxsin \ln x dx$ B

N2

$$uft=u_{\infty} + \alpha(2+t) + \alpha^{2}(t^{2}+t+e^{t})$$
 $uf=0=\alpha$ 
 $uf_{t}=0=0$ 
 $(u_{\alpha}-hu)|_{\alpha}-e=t$ 
 $u=0+\omega$ 
 $u=0+$ 



NS Uff=Uxx + (x+t)4 U/1=0=x2+1; U+/4=0=x; U/x=0=0 U/x=0=0 W= 1+t+x-2+x UH = Uxx+ (x+t)4 1/20 =0 5/1=0 5/1=0 = x2-x 5/1=0 =2 1=0 C1=C2=0 => 100 weepub pelu -140 X=A cashx +BsinAnx Xn= SIN/n x In = \$7(1+2n) 11/x112= 92 ZTh(+) sindnx + Zth Pn(+) sind x + +2! (fn +4t gn +6t2hn +4t3zn +t4m) sindna

 $I_{h}(0) = \frac{2}{e^{3}} (K^{2}+1) sindn x dx = \frac{2}{e^{3}} \frac{2}{e^{3}} \frac{2}{e^{3}} \frac{1}{e^{4}} \frac{1}{e$ In= An costat + Bu sindut + + (In + hant +6hnt2+rnt4 + 4£32n)
- 12 (12hn +12rnt2 + 24 £2n - 24rn)  $An = K_{3} - \frac{f_{n}}{\lambda_{n}} + \frac{12h_{n}}{\lambda_{n}^{2}} + \frac{24 \kappa_{n}}{\lambda_{n}^{3}}$   $B_{n} = -\frac{4g_{n}}{g_{n}^{2}} + \frac{24 z_{n}}{\lambda_{n}^{3}} + K_{2}$