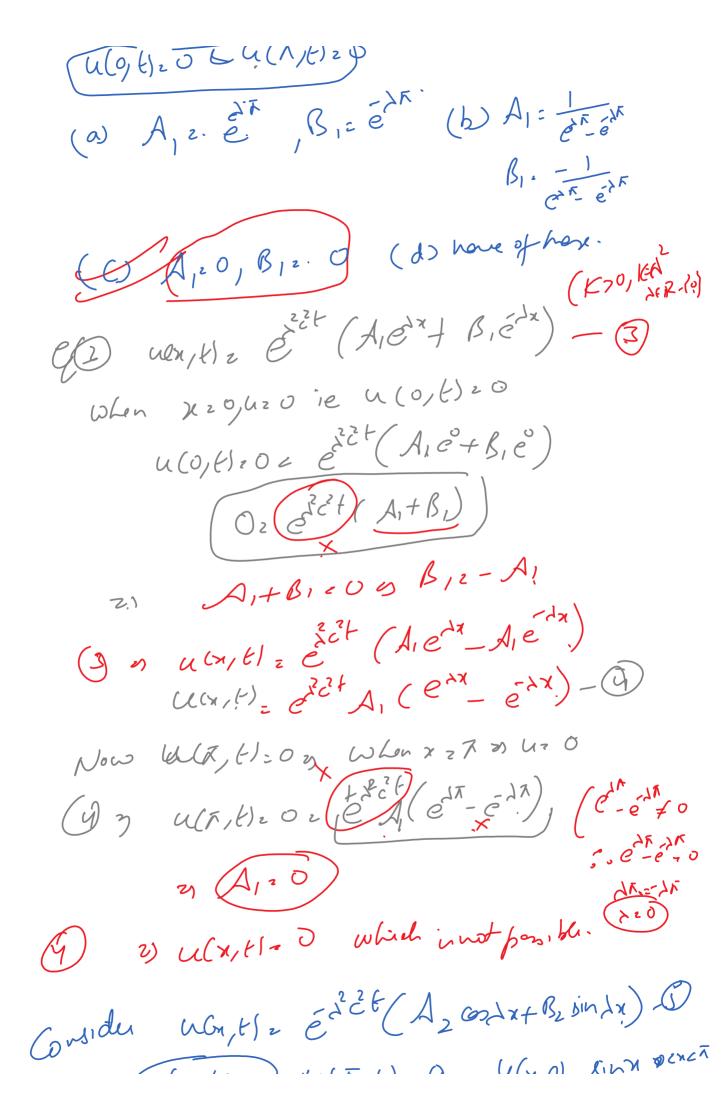
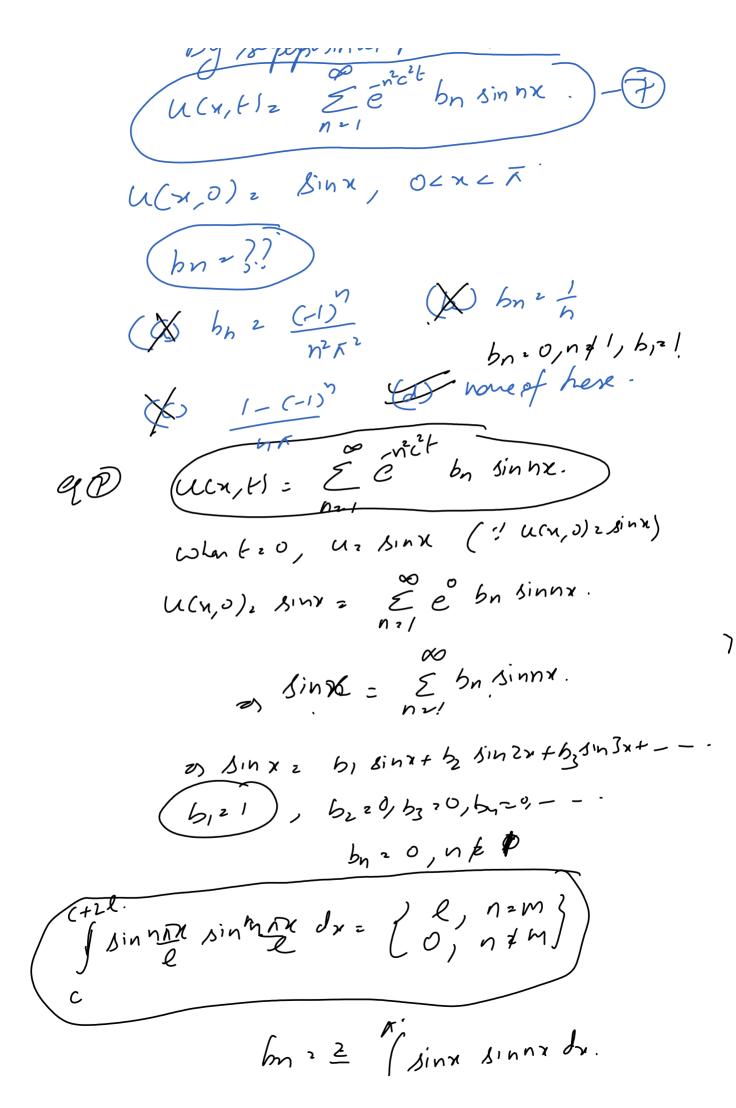


Consider u(x,t) = ex2t (1,exx+Biexx) -(3)



MM, t) 2 C (u(0,t)20), u(T,t)=0, u(x,0)2 Sinn, pener (a)  $d^2 n^2 \pi^2$  (b)  $d = \frac{1}{n^2}$ . Ils. 12 n. (d) none of here. When x 2 0 , U2 0 (: 'u(o,t) 20) Uco, tl, o 2 et (A2Coso+B2 8ino)  $2.02e^{-\frac{3^{2}}{2^{2}}}(A_{2}(1)+B_{2}(0))$ (3) u(x,t)= & 32t b\_ sindx. - 6 WLax = 7,420, (... u(x,t)=0 (3) ~ (1/t) 2 E 32+ B2 Sinh ~ 2 0 neith Bz Bindh > 0 か かいななこひか 2 drink salin), ne R (8) & U(M, N) 2. Enct Be sinnx, nEZ By superforitan punicuple.

U(x,t/z \( \frac{1}{2} \) \( \frac{1}{



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 $(u(n,t), e^{-c^2t}, y) + 0$