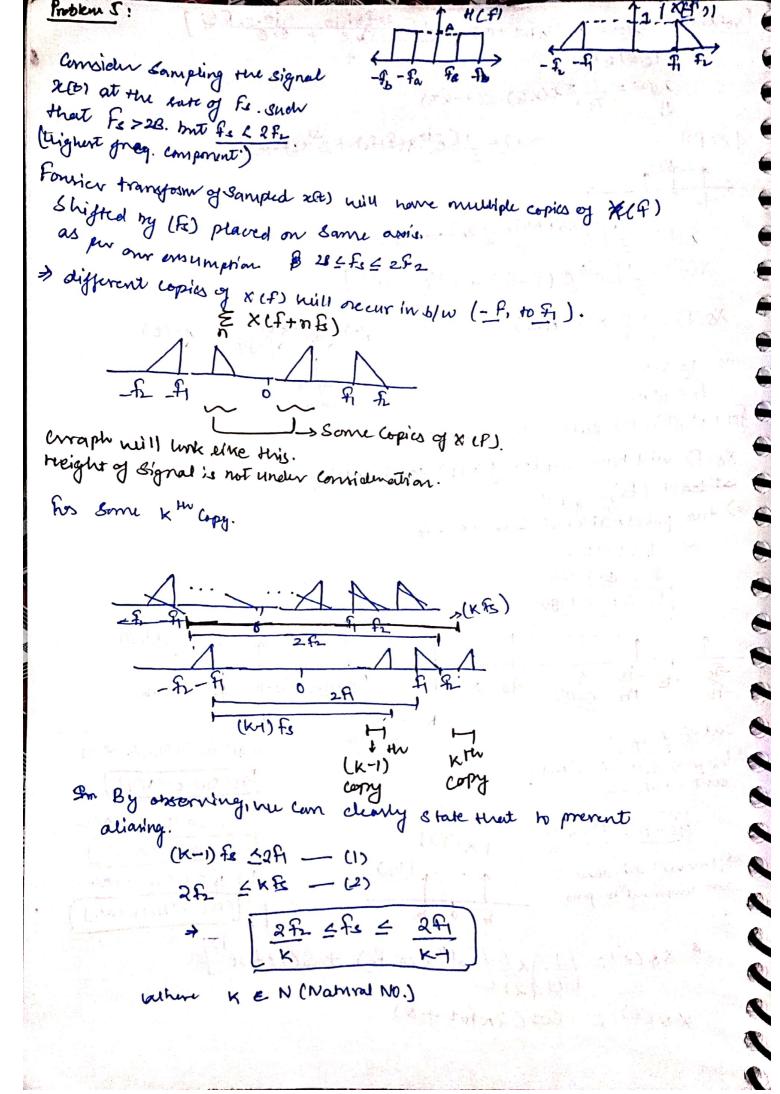
2(t) = as(2cfot+0) = = [c2xftijo - 40-2xfti] Problem 4: TG=145 25(t) = I EX(KTG). S(t-KTG) X42= 1 ( = 10 X ( = + 2) X ( = + 2) } (F) 2(t)= -[(2xfi+0)j-(2xfi+0)j] X(f)= ][0.8(f-fo)+eis(f+fo)] The second XS(8) = 1 = x(f-NFG) as 9= 45. F3= 16 Hz. Impulse for (a), (b), (c) puts formax = 750 M2. XSCF) will have copics of XCF) separated by at least (fs) nis gar of => two pulses nationst how Is-2 fo falknz. fiz & love len. F3-2 F0 > 998KHZ -6-65 1 1 SON WITZ cut of freq of low pars tilter: Sookuz (B) 80=28011-, 0=7/4 centred at (zero) 45 (SPAt 17/4) fs- 8 > 999 KM2 めんこのHz, O=NL (x(F)) filter will only allow COS (INOR + + Xh) In component to purs. (L) & = 750M2, 0=xh (COS (27(NO) ++8/2) \* x\$(f) = (1) x [ (e' 8(4-fo) + 8(4+fo) e] XSCE) Z COSC 2 Refort + O)



musipling respective terms of eq(1) & eq(2). multipling (K+1) f (K+) Fe. 2F2 = 2fi. kfc {by property ]. , f2-f1 = B. (K+) f2 & f1 k (K-1) f2 & f2K-BK 4 - f2 & - BK => f2 2 BK K = f2 as & can be as Natural No. K ≤ [ \frac{f\_2}{2}]; graphes + Integer. func.  $f_{\text{smin}} = \frac{2f_2}{k_{\text{max}}} = \frac{2f_2}{[f_2]B}$ check whether it will follow nequist cuit  $\frac{f_2}{B} = m$ ,  $\frac{f_2}{B} = m$ Follow neguist cuitaria.  $\frac{f_2}{B} = m$ ,  $\left(\frac{f_2}{B}\right) = \eta$ . & family = 2 (MB) Formin = M > 1

If m = n ( It's muchipu of B).

The sprin = 2B. It will follow neguret criteria. Fa=Fi

Fa=Fi

Fiz Fa

R=Fb

R=Fb xxt) z hlb & Z z c k Te) : Stork 8(t-k Te) X3CF) ZXCF) 2 HCF) 1 Z X(f- KE)