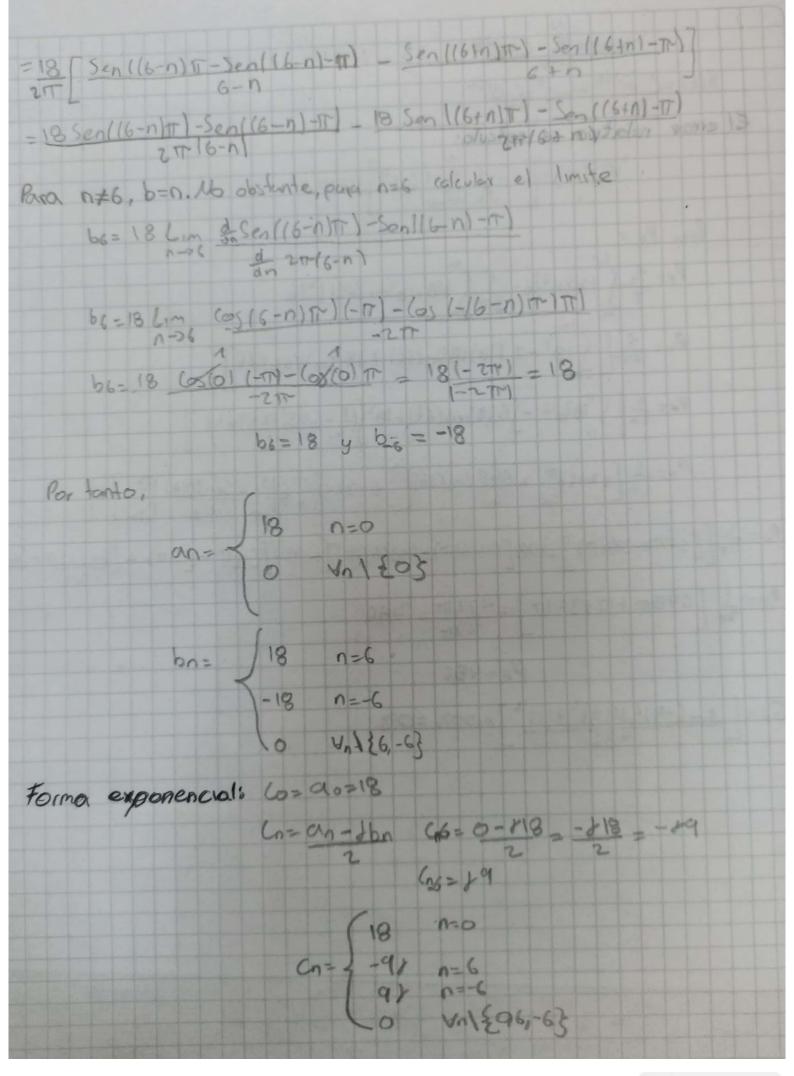
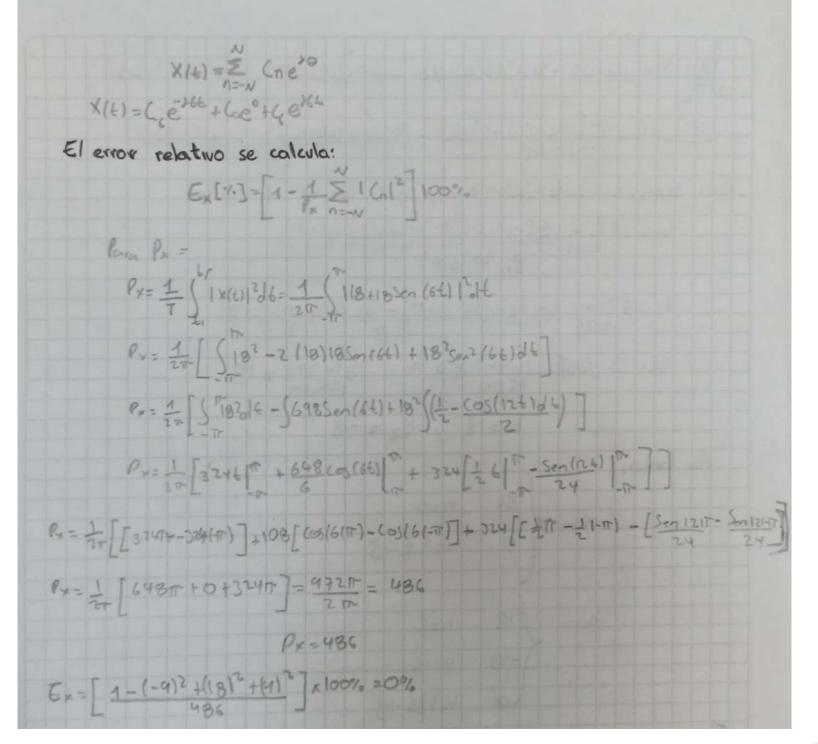
2-11 Encontrar la expresion del espectio de sources X(t)=16Sen (3++ T/41)2=625en2 (3++T/4) Pox identidad: > Sen (0) = 1 - (0) (10) X(t)=36 (2-Cos(6t+T/2))=36-18Cos(6t+T/2) X(t)=18+8(0)(66+17/2) -> (05/0+ T/2) = - Sen (0) X(t) = 18 + 18 Sen (6t) Forma trigonometrica: Xt1 = a. + 2 an (a) (nwot) + bn Sen (nwot) Ya gre x(t) corresponde a una tunción seno, al seno presenta Enfonces; qn=0 X(t)=13+18sen(6t)=a0+ = bnsen(nwot) 00=10= 1 5x161dt a= 1 518+18Sen (6+) dt = 18 Sen (6t) d = 21 (Sen (6t) d = ·1) 18 Sot = 18 (m) - 18 = 9-1-4) = 18 · 2) 18 (sex 66 = 18 - Cos (6t) = 18 [-cos(8/1-11 (65 16 (-11))]

218 [0]=0 Q0=18 Para bn on=2 (x1t) Sen (nwob) old bn = 2 18+18 son (6t) Sen (wot) oft by= 2 Sissentinuo tole + SB Son (66) Son (mwot 1016 Identidae sen(0) Sen(d) = (05/0-2)-(05/0+2) Sen 8 = Sen 66 Sen & = Sen Inwot] = (0) (6t-nust)-(0)(6+1 nust) - (0) (6-nus (6) - (0) (6+nus) t) Wo = 21 T = 2th WO = 21T = 1 rody bn = 2 [5 185en (nt)d+ 5 18 cos(16-16) - 65(16 41) + d6] 1) 18 (Sonint) old = 18 cos(nt) | = -18 [cos(nt) - cos(-nt)] = 0 0 18 (016-n)+)-Cas(6+n)+)d6=18 (5cos(6+n)+)d+] 19 [sen(16-n) = - Sen(16-n)] - [Sen(16+n) = Sen(16+n) - Tr)] - [Sen(16+n) = Sen(16+n) - Tr)]





2-21 ((t) = Aclos(2TFet), AcFEER y(6)= (1+ m(t))((t) Ff ((4) } + F f m(4) ((4) } F{Aclos(wotet)}=Ac. + {e211fct + e211fct} ACT FEFTER + FSE-+211 Tob } Ac Ind(w-200 fc)+200 (w+200 fc)] ACTO (W-2TT fc) + ACTT d(w+2TT fc) -> C(w) = ACTO (W-2TT fc) + (W+2TT fc)] F { m(t) (Accos(25-16t)) = F { Cos(21+Fet)m(t)} = FSm(+)e-211/c6}++5m(6)e+211-fc62 m(w-zrtet) + m(w+zrtet) = 1 m(w-zrtet) +(wrzntes) 7 y(w)-Acrod/(w-27)+(w+27)+(w+27)+(w+27)+(w+27)+(t)