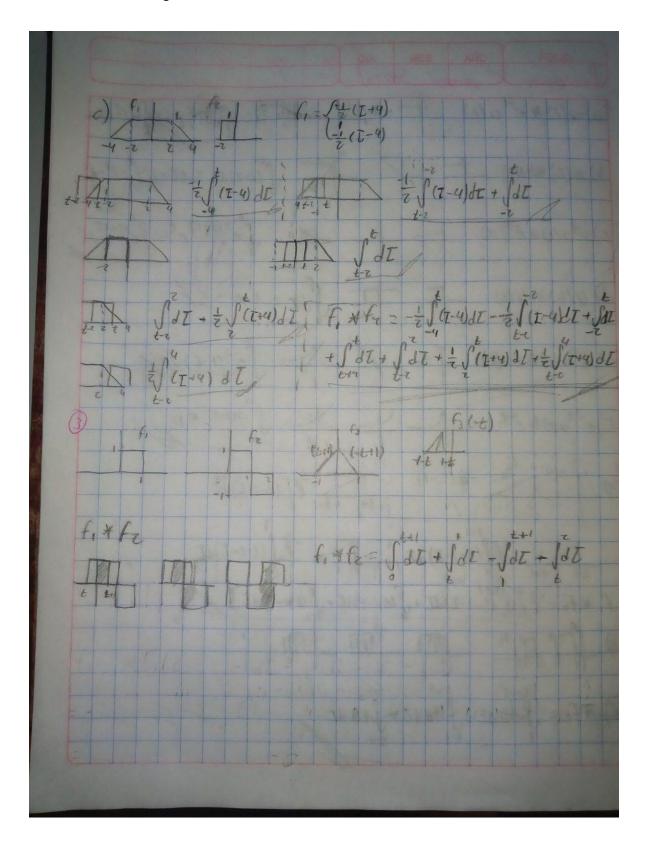
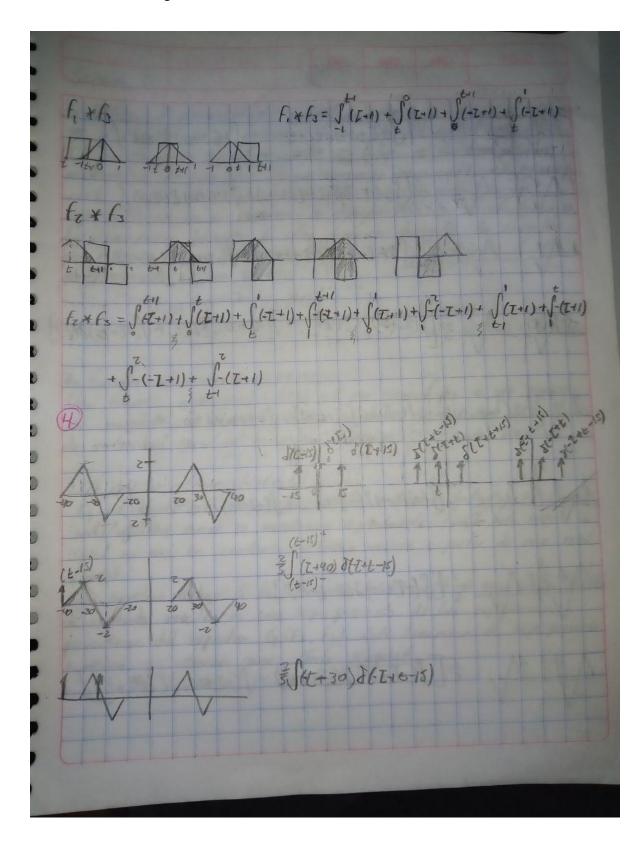
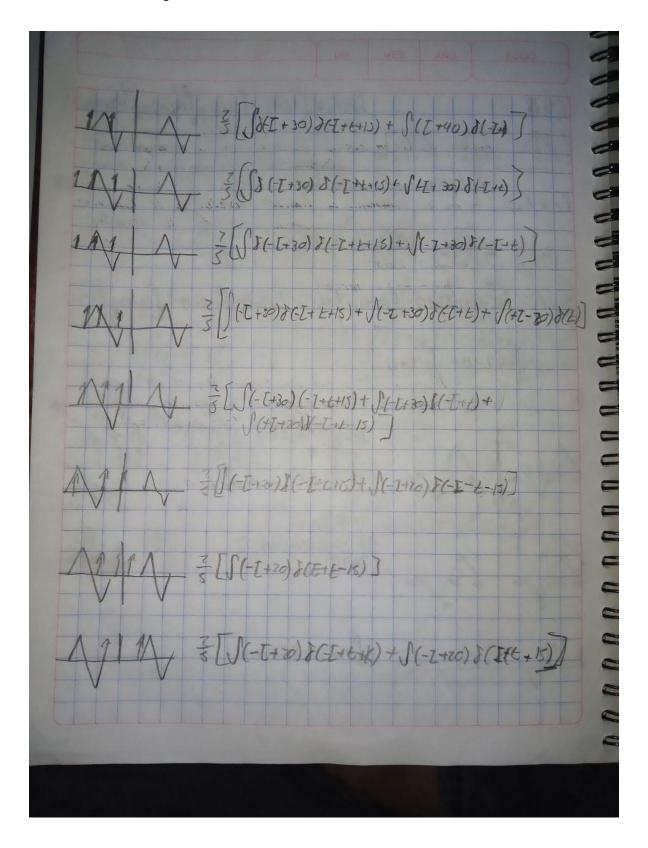
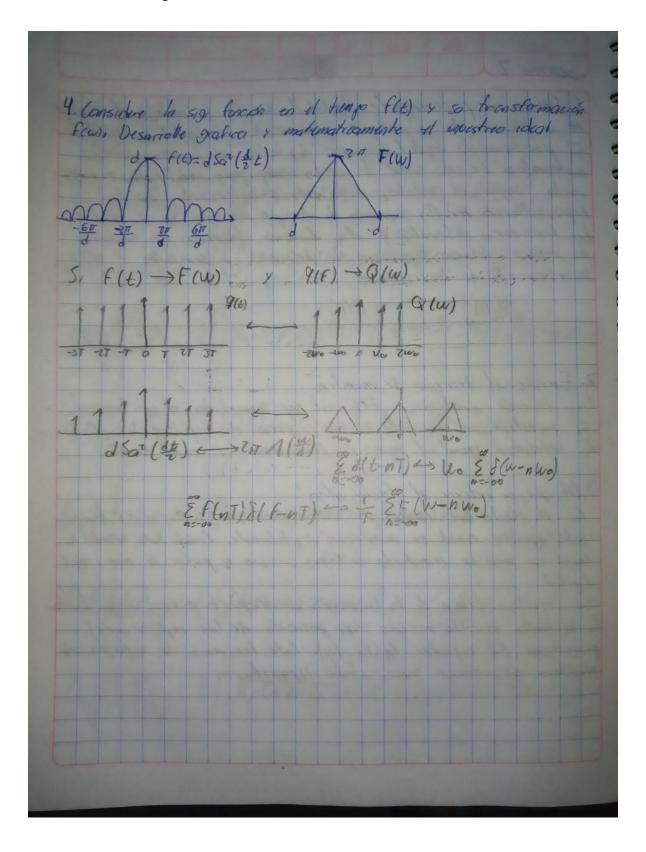
Problemano 2º paral Su	COL NES AGE FOLD
a dieste alts	Jet-gr
b) a(t) ************************************	$\int_{t}^{t} \int_{0}^{t} (t-T)dT = tI - I^{2} \int_{0}^{t} - t^{2} - t^{2}$
	$\int_{t}^{t} e^{3(t-t)} e^{t} = \int_{0}^{t} e^{3t-1} dt$ $\int_{t}^{t} dt = t-0 = t$
e) etu(t) * tu(t)	t Joz- L- St. (t-t) St.
F)e studet	J-3(6-E)-E OL
2) 1 au Fr 4(1-1)	Jb(1-1-2) JZ
til til 0 (4-1-1) dI (
F, * Fr = = [[[(+ 1 - 1) d] +] (6	1-I)dI+ J (t-1-I)dI]
FIXFE = SABJE + SABJE + J	AB dI





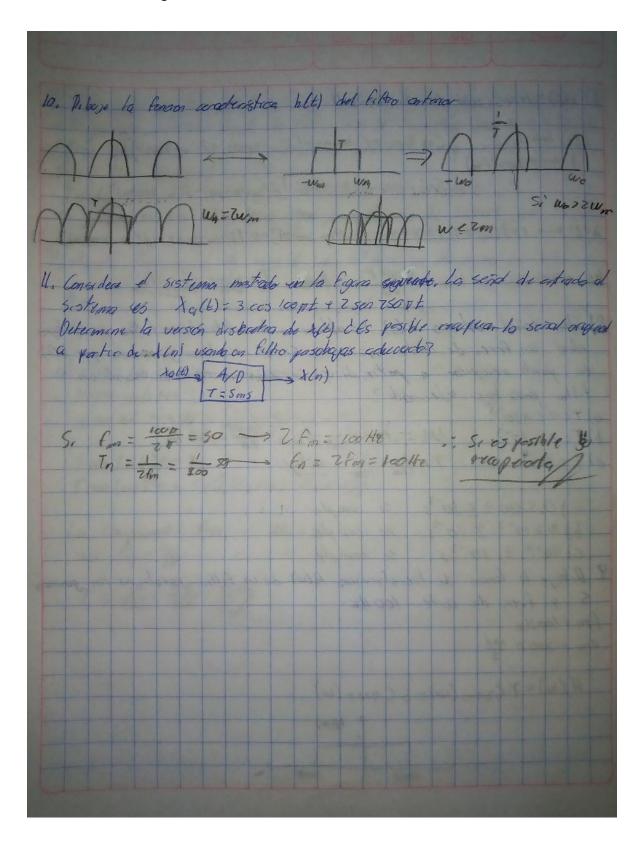




al Sa (loot)	la configurate free. Wo = 200 19 s
A Coly > Ad Sa ("d)	
dsa (to) was a colu	2fm=200
700 Sa (kot) - ITC 700 (w	Tw= th= To
b) Sot (Icot)	700 11211
A(ta) -> d Sq (ta)	Wo = 200 rad for 200 - 19 H
d Sq2 (to) => ZT/1 (1/9)	Tw = 2 for = 200 5/
200 Sq2 (100t) 00 201 1 (1/a) Sq2 (100t) 00 1 (1/a)	
c) Sa (1002) + Sa (502) A(d(t) -> A d Sa (202)	Acd (1) - Ad So (md)
Cd(t) -> d sq (wa)	Cd(t) - d So (w/s)
cosq(toot) => TT Cd(W) Too Sq(100t) => TT Cool(W)	100 Sy (306) 6 2 (w) + 211
Sq (100 t) - Theo (200 (w)	Sa (Sat) -> To Cino (u)
	-> == [+ (200 (u) + C100 (w)]
$\mathcal{I}_{\mathbf{q}}(l \infty t) + \mathcal{I}(\mathcal{I}_{\mathbf{q}})$	
La componente frece mas gran	de 25 Wm = 200 rad
Fm - 200 - 100 Az	
Tw = 26 = 700	

DIA MES AND	73
College I I I I I I I I I I I I I I I I I I	6
St sabe que una stad de valor real X(t) ha sido determinado sobo par ses mustras coaste la fravencia de mustras es un tora	ort
d'fara que valores de u se gerantera que t'eus sea (200)	
Dividrendo estre ITI a 1 obtenienos US= 5000 t	
Se garantiza que Fiu) sea cero peno valores de sosot	
7. Aquella frecuencia de acurdo con el teorismo de moistico, de la considera por la francisco de moistro se llama varian de Niquist.	str
Determine la varion Ny quist correspondiente correspondiente a cada de las esquisitas;	ung
(i) $\chi(t) = 10 \sin(ut) + Ssin(ut)$ 10 sep ut \longrightarrow ?	
10 sen wt - 10 Ti [S(w-W)-S(w-W)]	
5 sen (wt) => ? 5 sen (wt) => 5 sqi[8(4+14)-3(4-14)]	135
La componente free, es Won=W	
T = Tom = THE	1
Then the state of	
	2716

D(t) -1	Cos Roac	ont - T	[J(w+2000)).	f(w-20001)]	THA
1 = 20090	(4)			n)-8(w-4000n	
x(t) ←> 2713Cu			-	10 1 1	144
casca					
Wm = 4000 TT	fin = you	7 = 7000) = 7 Fm	= 4000 He	
8. Una sengl	antinca x Ct) scatteren	a la sake	b de en felts	o pana
ideal can fre	e, de corke	W = 1000 17,	Si el mo	store garanti	ra gen -
se payde see felho paso ba	operar a pa	Tex de X5	Ven scenes in	vesteranos use	mo un
9) T= 0,5 × 10 3			100017	- "	
b) T=Zx 10-3 c) T=10-4		1000 7 => +	301	X00 148	
011210	- Cfun	1000 -	-3	4.	
a) 0.5x10		15			
b) 2 x 10-3 c) 10-4 =					
9. Ochoje la fon			(w) du un F.	thro pasaba	as con g
S & free,					
Wm = 100 Hz					
H(w) = TCz	um (w) = 5				
		1 Hew)			



(1	40	カノニ	605	63	11																	
	to	r Con	1) =	los	C	17M	1 2	3 1	un o	dia	T	3	1	Xn.) no	25	yen	at	ca			
											T			+		and the same		-				
b)	10	2) :	2 7	+1	le [2	3	+ 00	13 l	300g)				+							
	4,0	(17)	2 2	-	5	.,7	, 2,	12,	2,	* * *	3	13		,					6	,	1	4
												,1,							= 4	7	12,	2.
7	36	,) =	Co	sl:	300):	É.		-/,	0, 1	,0,	1,0	2,1,	0,	-1, -	-3	, -	1	+			
	-															n						
	10000	10	-	100		-						-										
										-			-		-							
3	600	a f		to	5/0	51	أرمة	960	1) 0	We t	15 4	19 5	cons	de	sinc	sid.	15, 1	und	qu	50	ye.	red
3,	60	afi	gon	la	519	20	nd la	g Con	1) 9	& d	3 3	nose	1025	de	120	sid.	15,1	unct.	qu N	* 2	ye	red
3,	60	afi	gon	la 1 jui	519 100	de Ton	nd 10) +	g Con son	(a) (a)	4 d	(m)	nuse	Nors	= 4	je	sid.	15,1	und	gd N	* ? ;	je	red
3,	60	afi	gon	la 1 jui	519 100	de Ton	nd 10) +	g Con son	(a) (a)	& d	(m)	nuse	1025	= 4	je	soid web	15,1	undi	que N	* ?	ye.	red
3,	60	afi	gon	la 1 jui	519 100	de Ton	nd 10) +	g Con son	(a) (a)	4 d	(m)	nuse	Nors	= 4	je	seid.	1	usd.	ga N	* 3	je	red
3,	60	afi	gon	la 1 jui	519 100	de Ton	nd 10) +	g Con son	(a) (a)	4 d	(m)	nuse	Nors	= 4	je	soid	1	und ;	gal N	35	per	red
3,	60	afi	gon	la 1 jui	519 100	de Ton	nd 10) +	g Con son	(a) (a)	4 d	(m)	nuse	Nors	= 4	je	soid.	N.	und	gal. N.	* ?	yes.	red
3,	60	afi	gon	la 1 jui	519 100	de Ton	nd 10) +	g Con son	(a) (a)	4 d	(m)	nuse	Nors	= 4	je	soid.	1	undi	que N.	32	yes.	red
3,	60	afi	gon	la 1 jui	519 100	de Ton	nd 10) +	g Con son	(a) (a)	4 d	(m)	nuse	Nors	= 4	je	Sid	N	und!	ga N	* ?	per	ned
3,	60	afi	gon	la 1 jui	519 100	de Ton	nd 10) +	g Con son	(a) (a)	4 d	(m)	nuse	Nors	= 4	je	Sid	N	und! s	ga N	* ?	per	ned
3	60	afi	gon	la 1 jui	519 100	de Ton	nd 10) +	g Con son	(a) (a)	4 d	(m)	nuse	Nors	= 4	je	Sid	N	usdi s	ged N.	* ?	yes	red
3	60	afi	gon	la 1 jui	519 100	de Ton	nd 10) +	g Con son	(a) (a)	4 d	(m)	nuse	Nors	= 4	je	sid	V	usdi, s	gad N.	***	Yes.	red
3,	60	afi	gon	la 1 jui	519 100	de Ton	nd 10) +	g Con son	(a) (a)	4 d	(m)	nuse	Nors	= 4	je	sid	V	usdi.	gal N:	* ?	per per	rad
3,	60	afi	gon	la 1 jui	519 100	de Ton	nd 10) +	g Con son	(a) (a)	4 d	(m)	nuse	Nors	= 4	je	sid	N	usdi.	gad N	* ?	- Jei	rad

Consider								×	CENT												
X(n)=	30,1	2,	3,4	5,	6,	7,	83							y E		TS	18	- 4	8		
Z(m) = 0				8						K Ca)=	24	ln	-2)							
encuentre a) g (-	; n) =	٤	-,1	1811	15,	7	19	(6.	1 3	3				100				K	1	7.1	
b) 8(n)	+ 4(0)) = }	1,	1,1	,1,	, 7,	, 3,	, 4,	4,	5,	6,	7	58								
c) 3gla	390	n) =	21.	, 1/2	1	31	Ver,	, 1/5	1/6	7 va	.7							1			
3900	-6 H	1) =	3-1	5,-	6,	-6,	-6	-	6,	63		(, ,						1			
d) 9 (n-	-6) =	£0	,0,	2,	4,	8,	16,	32	3					-	30	-	10	-	-	P	
0) = 4(0	,-3) :	{1,	, ,	4,	8)	16	, 0	, 0	20	73		2	1	7		-		-	1		-
f) x (m	z) =	₹ō,	0,0	1,1	, 2	, 3,	4	5	6,	3,	63	-									T
9) 4 (30		-5/	(2)		m.		7	- 1	200	. 7					-			-			-
+	(n-3))={	5,0	9,0		63	4,4	2/6	1, 1,	83				-					-		
的+(学+		-54		,	1,0		-	7					-	-	-		-	-	-		
	(n+5) 2+5)								3,3,	4,	4,	5,	5,	6,0	-	7,	7,1	8,8	3		

J) 2	(410-3) (410-3)
	N(n) = 300, 2, 2, 2, 3
	$K(\frac{n-2}{10}) = \frac{7}{6} \frac{1}{6} \frac{1}$
	(40) = (good good restrict, preserve,]
	K(40-3)= {0,00,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
K) 1	(1-2+10)
	K(n) = { 99, 2,2, 2,23
H	K(-n)= {, (2, 2, 2, 2, 0, 0)} K(-34)= 6 2, 0 }
	K(-1/4 +10) = \(\frac{1}{2}\), \(\frac{1}\), \(\frac{1}\), \(\frac{1}{2}\), \(\frac{1}{2}\), \(\frac{1}{2}\)
1).	$(3n-3)-g(-\frac{8n-7}{3})$
1	x (3n) = 80, 3, 63
	1 2 1 2 1 5
	x(3n-3) = 20,0,0,0,0,2,0,0,0,0,0,0,0,0,0,0,0,0,0,
	9(80) = { 3, 4, 4, 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,
	· \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	1/2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /
-	13,15,15,15,133
	9 (-En-7) = Exs/15, 15, 15, 15, 15, 16, 16, 16, 16, 16, 16, 15, 13, 15, 5, 3
	7 - 4 3 - 3,4 5 6,7,83
xl	30-3 - d-80-7 = { 4 x 1-191331 2,314,5,6,718}

J) 2	(410-3) (410-3)
	N(n) = 300, 2, 2, 2, 3
	$K(\frac{n-2}{10}) = \frac{7}{6} \frac{1}{6} \frac{1}$
	(40) = (good good restrict, preserve,]
	K(40-3)= {0,00,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0
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	1 2 1 2 1 5
	x(3n-3) = 20,0,0,0,0,2,0,0,0,0,0,0,0,0,0,0,0,0,0,
	9(80) = { 3, 4, 4, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,
	· \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	1/2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /
-	13,15,15,15,133
	9 (-En-7) = Exs/15, 15, 15, 15, 15, 16, 16, 16, 16, 16, 16, 15, 13, 15, 5, 3
	7 - 4 3 - 3,4 5 6,7,83
xl	30-3 - d-80-7 = { 4 x 1-191331 2,314,5,6,718}

(m) (m) + g(m) + 2(m)			
1/1-571	2		
o(m) = 2/3/4/41	Y2 /5, 48 }		
(6) glas = 8 /2, 1/5	148, 41, Ku, 3		
+ E(n) = 31,1,1	1,1,1,1,13	1	
(61+9(n)+2(n)= 21	1 11, 17, 16/15, 19/18 11.	5	
1 (00) 14. (00)			
n x (%) + x (%3)	53 44 55 66 7 7 88 }		
1 (1) = 2 00 11 20	1, 4, 8, 8, 8, 16, 16, 16, 32, 3	7387	
1 (73) - 1 6,66, 4,6	2 4, 6, 6, 6, 18, 18, 18, 10, 10, 10, 10		
X19/2) x x (2/3) =	: 500, 748, 19, 22, 32	,48, 66,90,12	9,169,714
	286, 301 472, 559,64		
	960, 860, 880, 896, 8		
			1111

Secain 4	transtaments 7
1- 100	la honstormada Z q grasique la orgens de cencuguaça
Z(Mn)} = 17	$(4)^{n}(0) + 2(1/2)^{n}(6n-1)$ $(3) = \sum_{n=-\infty}^{\infty} [x(1n) + x_{2}(n)] \vec{z}^{n}$
1/2)=	+,(2)+x2(2)
	(1/4)" nzo
	E (/4/nz-n= 6 (4z)n= 1-4z
	48 = 7 , 1 d 7 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
X2(6) =	20 otro case 1
	12 - 1 - 2 , E C
	7 3 = 4
	1 > 2-1