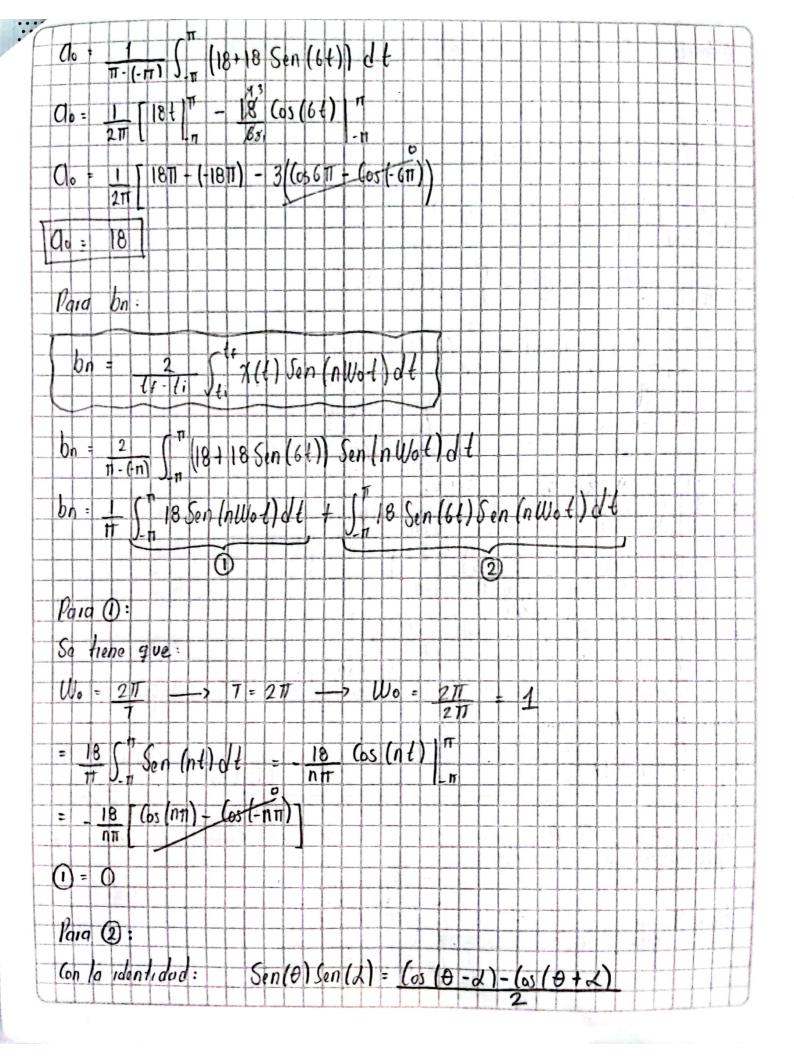
Sparence Encuentre Paro la s	la ex	pres 16 n	del	spect	ro de	Four	ier (Formo	exp	onen	cial	y .	trigoi	nométr
para la s	señal:	7 (t) =	6 Sen	(3t +	17/4]2	con	ŧ	€ [π,π]			
So tiene	900:													
x(1)=	6 Sen	3 + 11/	4) 2	= 62	Sen2 (31 1	11/4)					7.	
Por la	propie	dad:		-									1	
San 2 (+)			(10) 2											
So obtie	ne :					18								
7(1) -	36 /	(os(6+ 4 17	2)	2	36	_ 18	3 (05	16t	1 11/	2)	Ta.		PIS S
		11 1	14110	1	1/1	21	2019	199	10 00	(3)	1	bah	100	Santh.
x(1):	18-18	Cos (6	1 7/1/2)					2.4		100		+	A D 7/2C 1
Phora:	6	s (+ t	11/2) :	-50	$n(\theta)$							1	- 1	
										, .				
Entonce	2:	((t)= 1	8 + 18	Senl	61)//		217							
Para	Serio	Trigono	métric	a		-								
					+-									
7 (t) = a.	+ \(\sum_{N} \)	an Gs	(nWo	(t) +	bn	Sen	(nW	01)					
								-	1					
lomo	Alti	tieno	simetri	a 11	1 PAR	P	or el s	seno	, 10	nton	ces:			
$\chi(t)$	= - χ	(-t)		1						1		-		
dono	le:	an:	0		+	-		-	35	-	15	11 31	2	
Poi lo												31		
7(1)=	18 + 1	8 Sen (64) =	a _o +	N Z A:-N	bn	Sen (n Wo	<i>t</i>)					
Para Cl		Q0 = 0		1	cte	///								
raru U	0	40 = 0	te	- (;)]. 7	(1)	dt				- 47	1	7 7	1 36
													-	-



Aplicando la identida Cos (6t-nt) - Cos (6t				
$\frac{18}{17} \int_{-\pi}^{\pi} \frac{\cos(6t - nt) - \cos(6t - nt)}{2}$				
$\frac{q}{\pi} \left[\int_{-\pi}^{\pi} (\cos(6t - nt)) dt \right]$				
$\frac{q}{\pi} \left[\int_{-\pi}^{\pi} (os(t(e-n))) dt \right]$ $u = t(e-n)$				
u = t (6-n) du = (6-n) dt dv = dt	v = t (6+ dv = (6+ dv_ = d			
$ \begin{array}{c c} $	$ \begin{array}{c c} Sen(v) & Se$			
$= \frac{9}{11} \left[\frac{\text{Sen}(1(6-n))}{6-n} \right]_{-\pi}^{\pi}$	_ Sen (t (6+n))	-n		
$= \frac{9}{\pi} \left[\frac{\text{Sen} (\pi (6-n))}{6-n} - \frac{3}{\pi} \right]$ $= \frac{9}{\pi} \left(\frac{\text{Sen} (\pi (6-n))}{\pi (6-n)} - \frac{3}{\pi} \right)$	6-n . \	en (# (6+n)) 6+ n n (# (6+n)) - # (6		
Para n = 6 , Q = N aproximar la indeti	pero, para N= (iminación o		1700	limite ,
bs: 9 lim d ((Se)	(π (6-n)) - (Sen (-	π (6-n)))		

