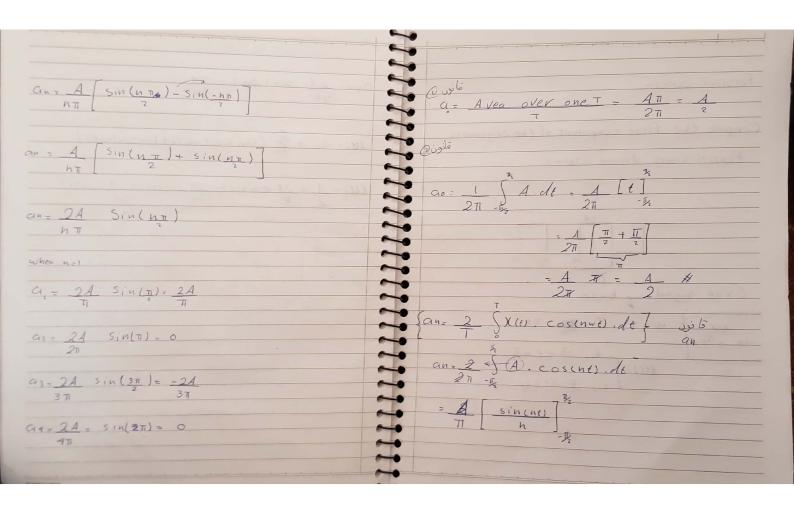
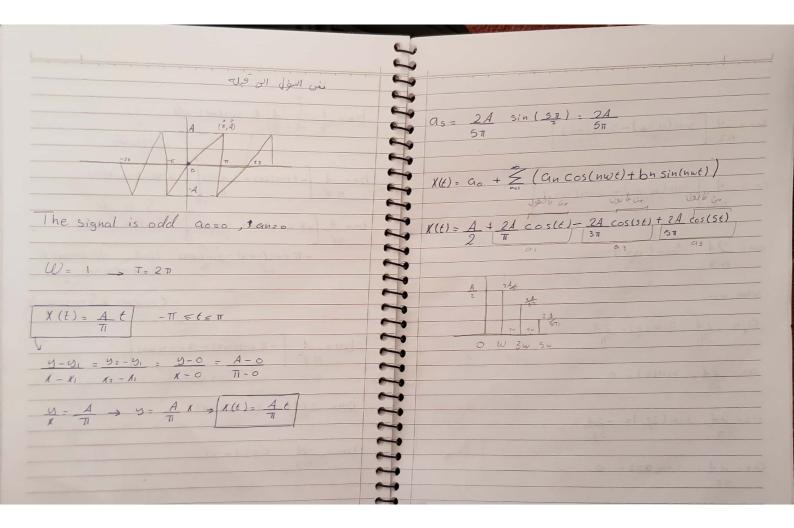
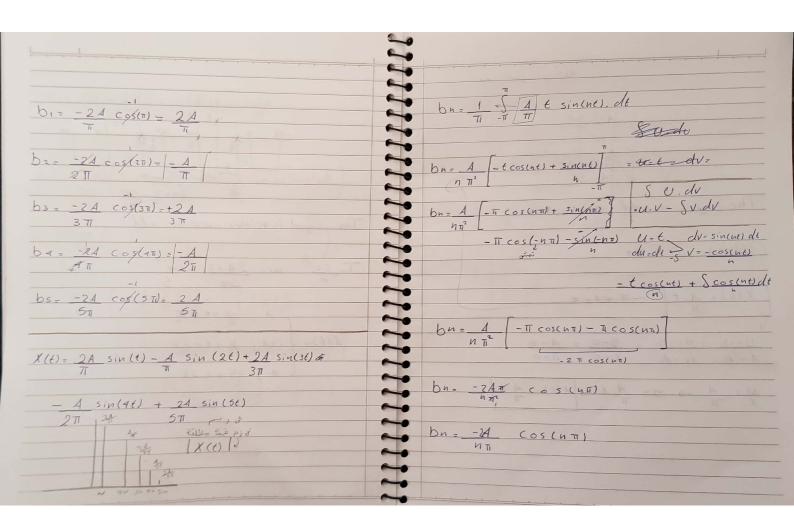
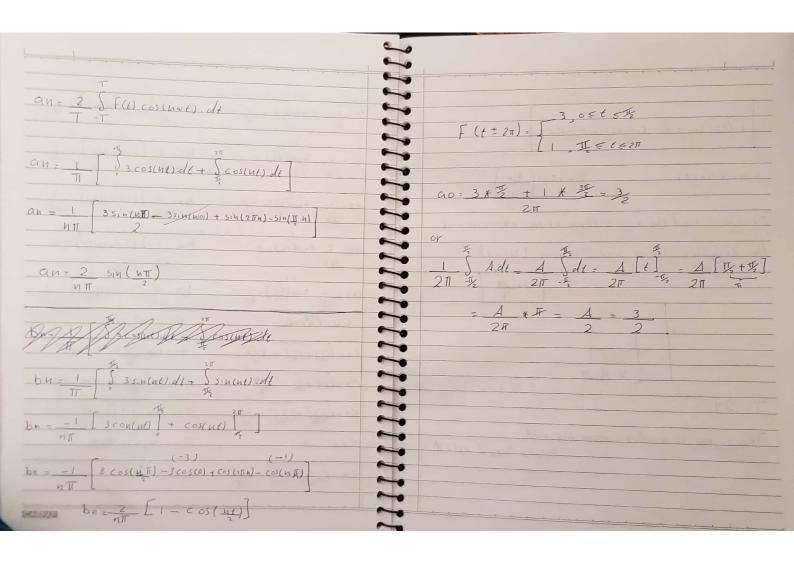
Forsrier Series: Compute the First component of the trignomeric Fourier senies Assume W=1 Even signal bn=0 an gao,



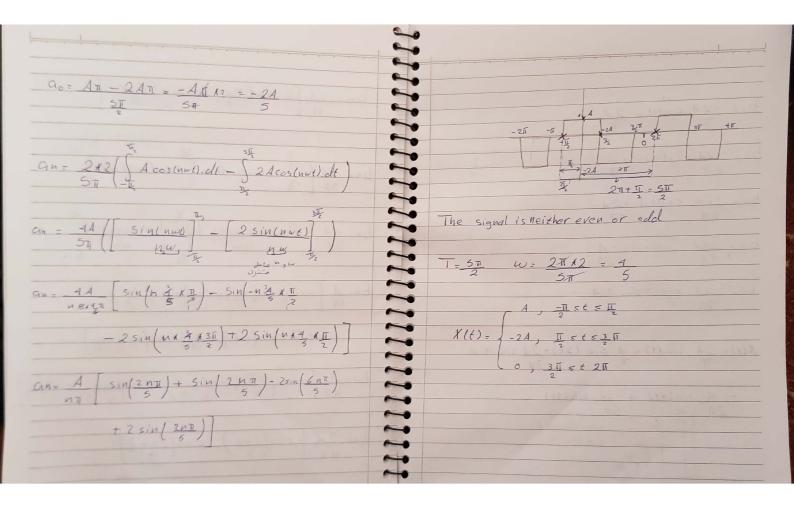


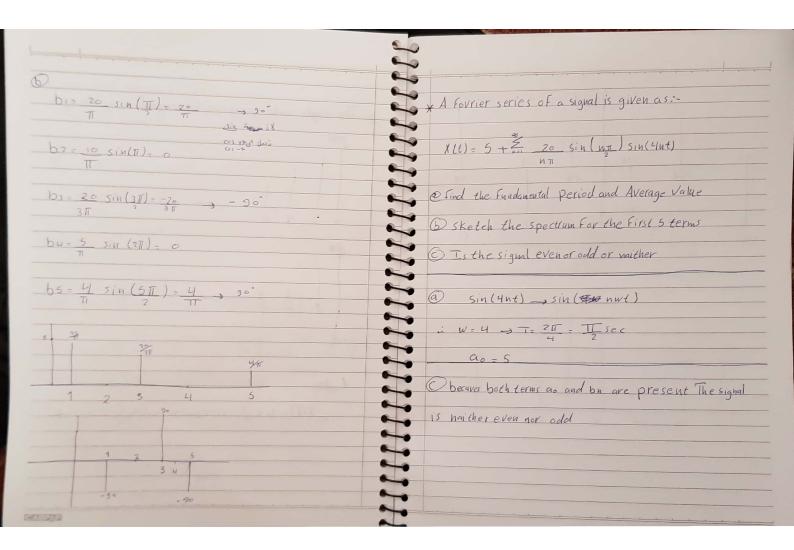


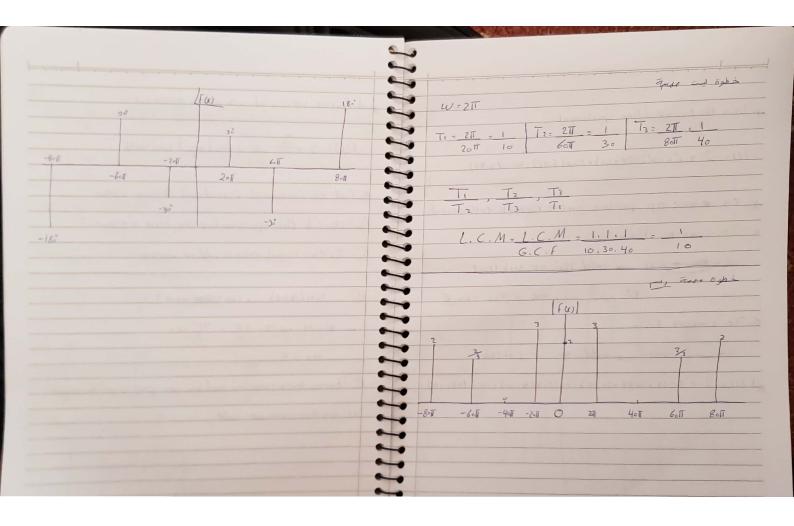


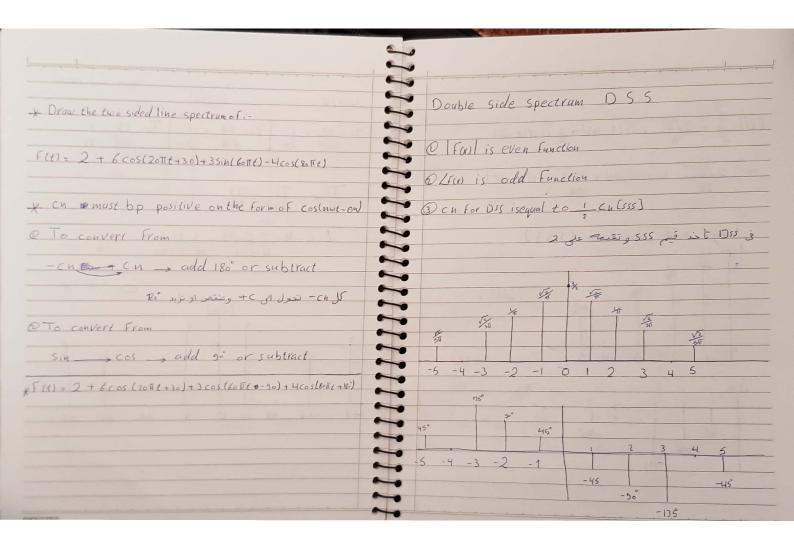
F(t)= $a_0 + \frac{2}{4}$ . $Cos(n\omega t - \Theta n)$ Ch = $\sqrt{a'n + b'n}$	Mr Ch Sinen bh O an = Ch(cos(en))
T-271 The signal is neither even nor odd	$F(t) = a_0 + \sum_{n=1}^{\infty} \left[ c_n(cossou) \cdot cos(nwt) + Cnsin(ou) \cdot sin(nwt) \right]$ $a \qquad b$ $cos(a + b) = cos(a) \cdot cos(b) + sin(a) \cdot sin(b)$
الا تأرة لا زوبة و فردية	

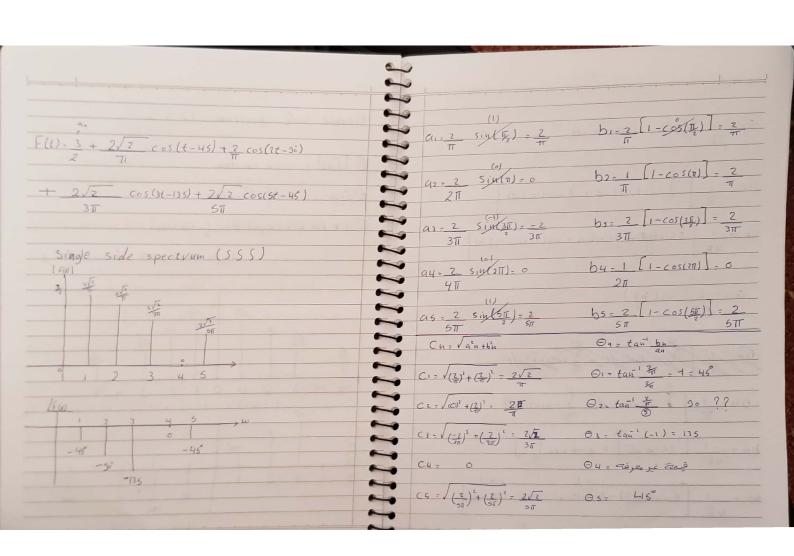
$X(t) = -2A + \sum_{n=1}^{\infty} \frac{2A}{n\pi} \left(\frac{2n\pi}{5}\right) - \frac{\sin(6n\pi)\cos(n\pi t)}{5}$	Cin = 24 2 sin (2ND) - sin (6NT)  N 5
+ 21 (cos(cnr) - cos(2nr)) sin(nwt)	bn= 4A ( S sin(nwt). dt - S 2 sin(nwt). dt = \frac{3\pi}{2}
	$b_{n} = 4A \left[ -\cos(n\omega t) \right] + \frac{2\cos(n\omega t)}{h\omega}$
	bn=A (-cos(N*# *#)+ Cos(-n* # *#)
	+ 2 cos (n * 3 + 3π) - 2cos (n * 3 + 2π)  bn = A (-cos 2 2 nπ) + cos (2 kπ) + 2 cos (6 nπ) - 2cos (2 nπ)  η π (5) + cos (2 kπ) (5) + 2 cos (6 nπ) - 2cos (2 nπ)  σ (5) + σ (5) + σ (5) + σ (5) (5) (5) (5)
	$b_{H} = 2A \left[ \cos\left(6  \text{NT}\right) - \cos\left(2  \text{NT}\right) \right]$

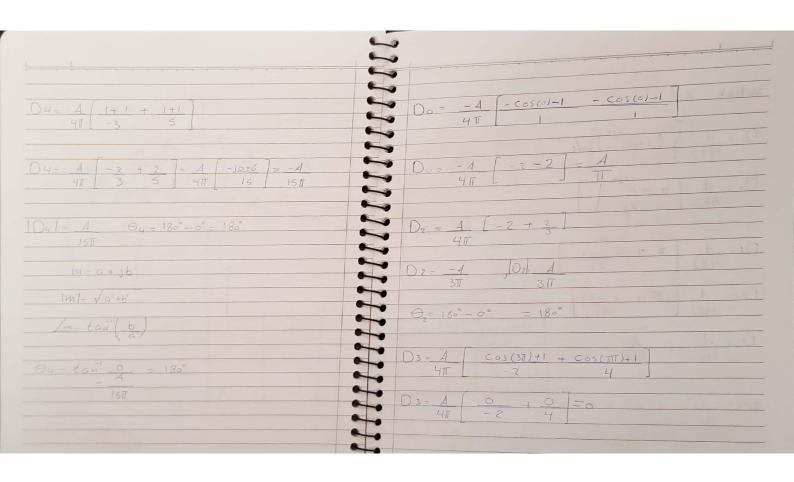


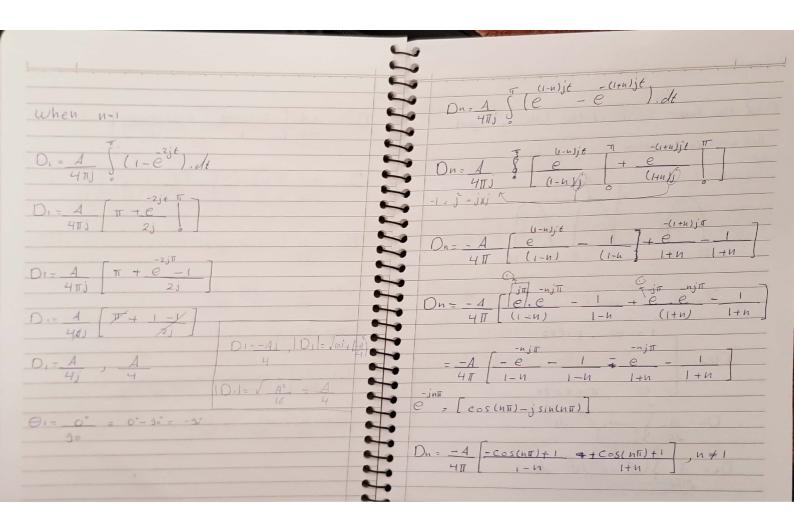


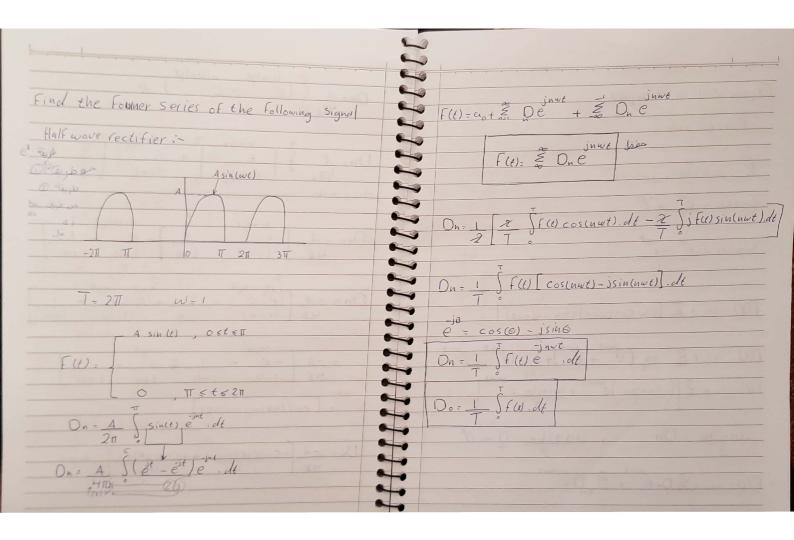












policytial or complex	
Forrer senes:	The single side spectrum for asignal is given as:    (AC)
and and and	(/(t/)
2 - Cos(0) + jsin(0)	5
05(0) = 0 + 0	) w
in(0) - e - e	0 9 4 6
in(6) - e - e	/x\tau
	60
(t) = ao + & [an Cos(nwt)+bnsin(nwt)]	и 6
The same and the s	2 0
)- a0 + & an (e + e) + bn (e - e)	-30
2)	
) - 90 + 2 (9n-16n) e mut + an + 16n e	* de:
	X(t)= 4+ 2cos(2(+60)+2cos(46)+cos(66-30)
an-Jhn = Dn , an+jhn = D or 0th	14 1 3 4 7 3 CO) ((( +60) + 1(0)(4() + (0)(6( -60))
) = 40 + \$ Due + \$ De	

