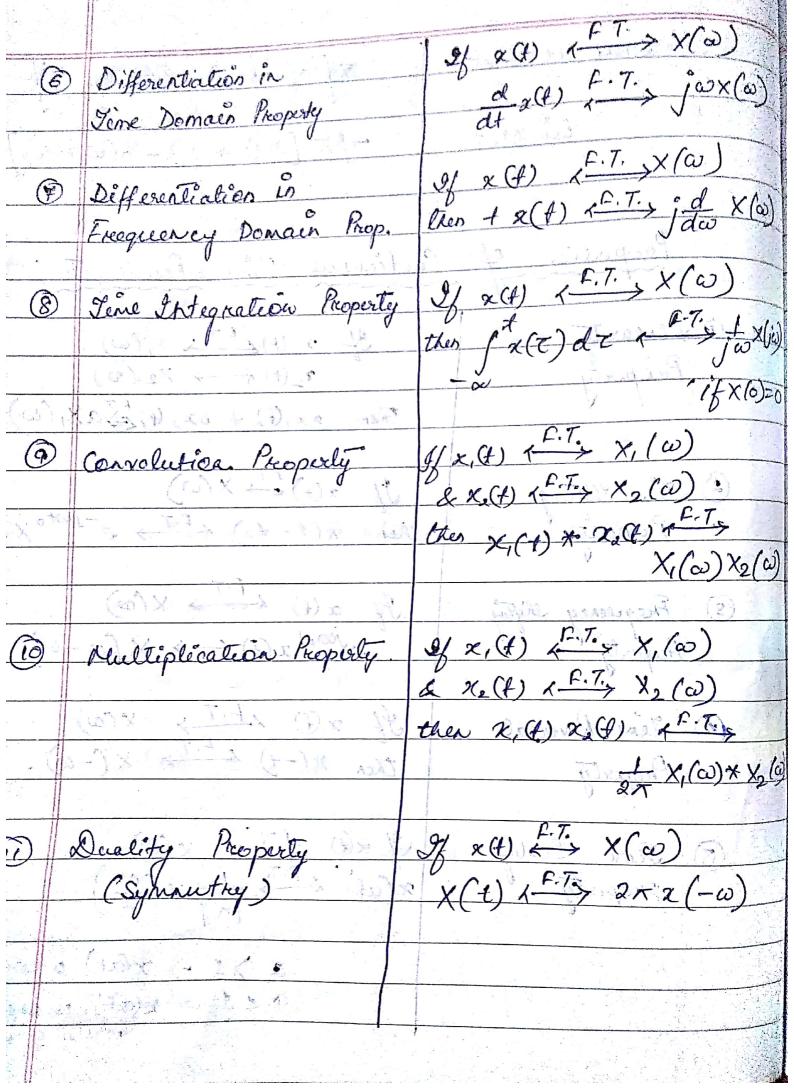
Inforthe Africa (A) Signal F. T.	
ES (E) 3 e-at u(t)	
atja	
$e^{-\alpha t } \qquad \qquad 2a \\ \overline{a^2 + cc}$	<u>7</u> _
e Joset - 2x 8($\omega - \omega_o$
Constant Amplitude (1) 27 8 (- 12
3gn (4) 2 jw	
Chit Step fr a(4) $\pi \delta(\omega)$ +	+ - - - - - - - - - -
	V
Rectarque pulse Gate pulse TT (t/z) or rest (t/z)	c wz
Tréangular pulse s(t/t) 7/2 sin	c 2 wr

cosu cos wot. $K[\delta(\omega+\omega_0)+\delta(\omega-\omega_0)]$ Sen wot -jπ [δ (ω+ω0) - δ(ω+ω0)] Proporties of Continuous - Time Fourier Tx: 1 Streakity Property Then $ax_1(t) \leftarrow bx_2(t) \xrightarrow{FT} ax_1(\omega)$ then $ax_1(t) + bx_2(t) \xrightarrow{FT} ax_1(\omega) + bx_2(\omega)$ If $\chi(t) \stackrel{f.T.}{\longleftrightarrow} \chi(\omega)$ then $\eta(t-t_0) \stackrel{F.T.}{\longleftrightarrow} e^{-j\omega t_0} \chi(\omega)$ D'ine Shifting Property $\begin{array}{ccc}
f_{\chi(4)} & \xrightarrow{f.7.} & \times (\omega) \\
e^{j\omega \cdot t} & \times (t) & \xrightarrow{} & \times (\omega - \omega_0)
\end{array}$ 3 Fraguerry skifting Property. If $\chi(t)$ $\chi \xrightarrow{F.7.} \chi(\omega)$ then $\chi(-t)$ $\chi \xrightarrow{F.7.} \chi(-\omega)$. 1 Tens Reversal Property 5) Tem Scaling Property $2\left(\alpha t\right) \xleftarrow{F7} \times \left(\omega\right)$ $2\left(\alpha t\right) \xleftarrow{F.7} \perp \times \left(\frac{\omega}{a}\right)$ $a > 1 \rightarrow x(at)$ is compressed $a < 1 \rightarrow x(at)$ is expanded vertion of x(t).



(15)	Modelation Resperty	2/ x (+) ((-1) + ((w)) +	
		then x (t) cas wolf) 1 fits	
4-13-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	A RISAL DE LA COLLEGIO	= [x(w-wc) + X(w+wc)]	
and the same of th			
(12)	Conjugation Property	Then $\alpha^*(\ell) \leftarrow \frac{F.T.}{Y} \times (\omega)$	
(13)	Conf 7	Then ax (2) 1-1.7 X*(-w)	
The second se	The season of the self		
and the second s			
(14)	Autocorrelation	9/ x(t) 1-1.7 × (w)	
A CONTRACTOR OF THE PARTY OF TH	Property	If $x(t) \xrightarrow{F.T.} X(\omega)$ then $R(T) \xrightarrow{F.T.} X(\omega) ^2$	
	rapory		
The second secon		3 2 THY	
(E)	Para wale Relation	If a,(4) (T. X,(w)	
	Parsevals Relation	$2 \times (4) \xrightarrow{F.T.} \times_{\alpha}(\omega)$	
	OF Lock	then (x,(t) 2 x (+) dt	
	Xx (w) - X, (w).	$= (6) \times = \int (X_1(\omega) X_2(\omega))$	
		$\frac{2\lambda}{\omega}$ dw	
		for complex x, (4) & Xe(+).	
(16)	Areea wader the	$g/\chi(t)$ $\chi \xrightarrow{F.T.} \chi(\omega)$	
	curue	D = D	
		$\int 2(t) dt = \frac{1}{2\pi} \times (0), 0 = 0$	
		$\int X(\omega)d\omega = X(0), for t=0$	
		• -2	
	軟件機能하다 하면서 없는 그 나를 하고 있다면 하는 사람들은 그 사람들이 가지 않는데 그렇게 되었다.	그래요 그는 요요 그는 그는 그가 아들이 그는 그는 가는 가게 모든 중에 얼마나왔습니다. 그는 그가는 것이다는 그리고 그 생각이는 그렇게 들어가는 그렇게 다른다.	

Then $X_{I}(t) = 0$ then $X_{I}(\omega) = \int x(t) \cos \omega t dt$ $dx(-\omega) = x^{*}(\omega)$ $X_{I}(\omega) = -\int x(t) \sin \omega t dt$ (1) If a(t) is even's real, even' & real, $X R(\omega) = 2 \int x e(t) \cos \omega t \, dt$ when att) is old & real, $(x,(a) = j \times (a) = -j 2 \int x_0(t) \sin \omega t dt$ For non-symmetrical for. $X(\omega) = Xe(\omega) + X_o(\omega)$

convert
$$x(\omega) = F[Y_2(e^{j\omega_0 t} + e^{-j\omega_0 t})]$$

$$= f(e^{j\omega_0 t}) + F(e^{-j\omega_0 t})$$

$$= I[2\pi\delta(\omega - \omega_0) + 2\pi\delta(\omega + \omega_0)]$$

$$= \pi[\delta(\omega + \omega_0) + \delta(\omega - \omega_0)]$$