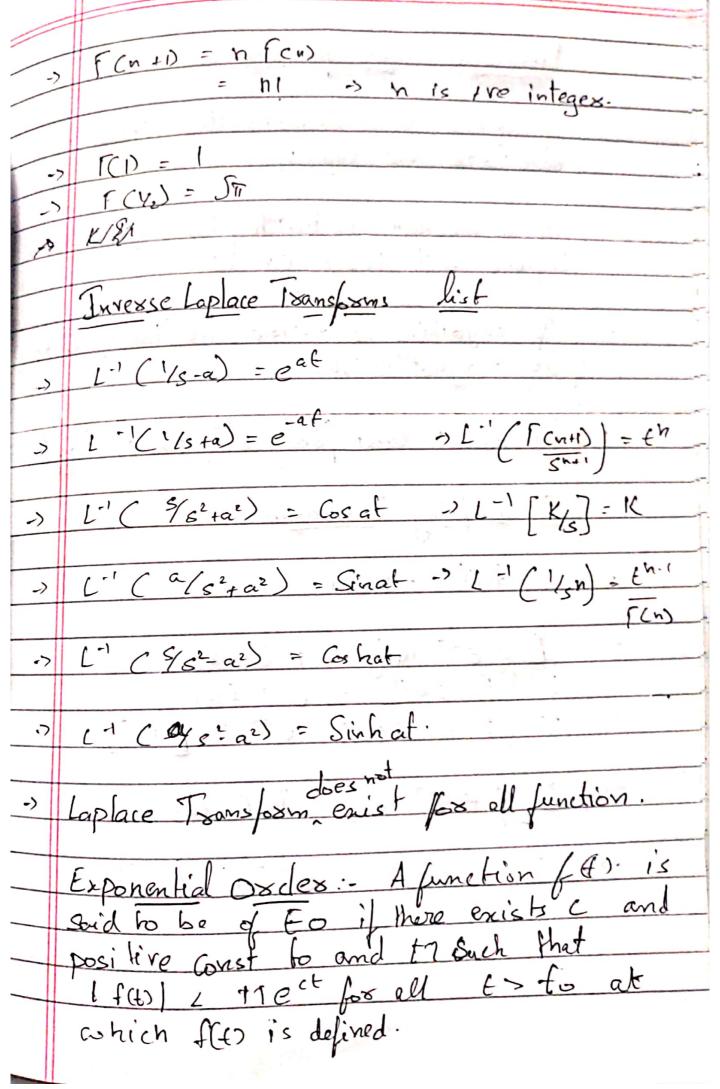
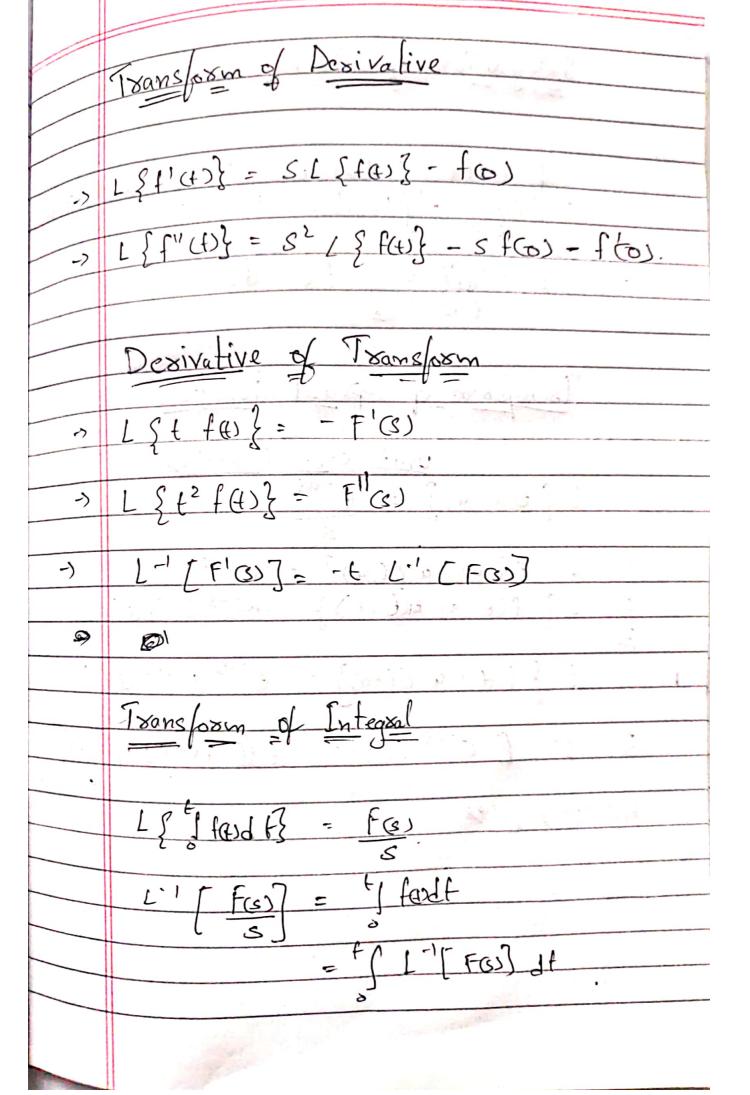
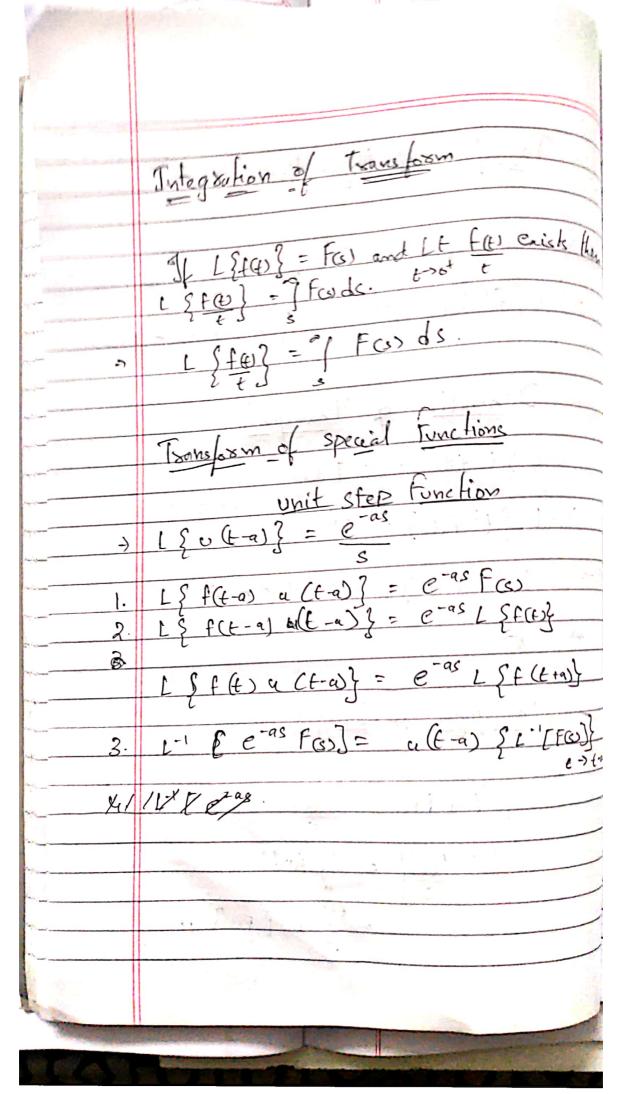
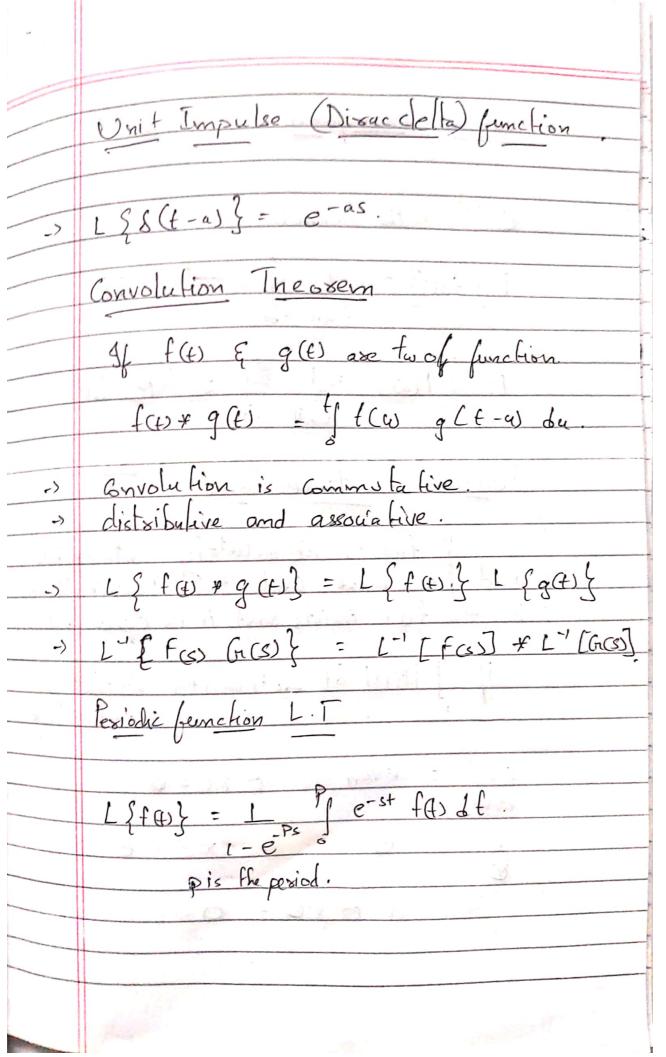
	Transform Techinques
1	Change from on form to another.
The state of the s	Change from or form to another.
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lay/f	
and the second	Carrellina
1-	Generalform
100	T[f(b)] = [R(s,t) f(t) dt = f(s).
Pri-	$\frac{1}{a} \int_{a}^{b} \frac{\lambda(x)(x)}{a} dx = \frac{1}{a} \int_{a}^{b} \frac{\lambda(x)(x)}{a} dx$
	Kerne(.
	rexnel.
	Loplace Transform
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· .	1156
b.,	Kernel -> e-st.
	List of Transforms.
ani.	
->	$L\{e^{ai}\} = 1/(s-a)$ $L\{e^{-ai}\} = 1/(sta)$ $L\{cosat\} = s$ $L\{t^{n}\} = (n+1)$
->	1{ e-atl = 1/(Sta)
-7	[{ Cosat } = 3 [[n] = [(no)]
	$\frac{L \{ Cosat \} = S}{S^2 + \alpha \ell} \qquad \frac{L \{ t^n \} = \{ (n+1) \}}{S^{n+1}}$
>> [? Sinat? = a
4	Esinatj. a
-> 1	SSinhati = 0
53	$= \frac{\{Sinhat\}}{s^2 + h^2} = \frac{L\{1\}}{s} = \frac{1}{s}$
é:	FSK4 - W
-> [{Sashat} = \frac{s}{s^2-h^2}
And the second	5-h-



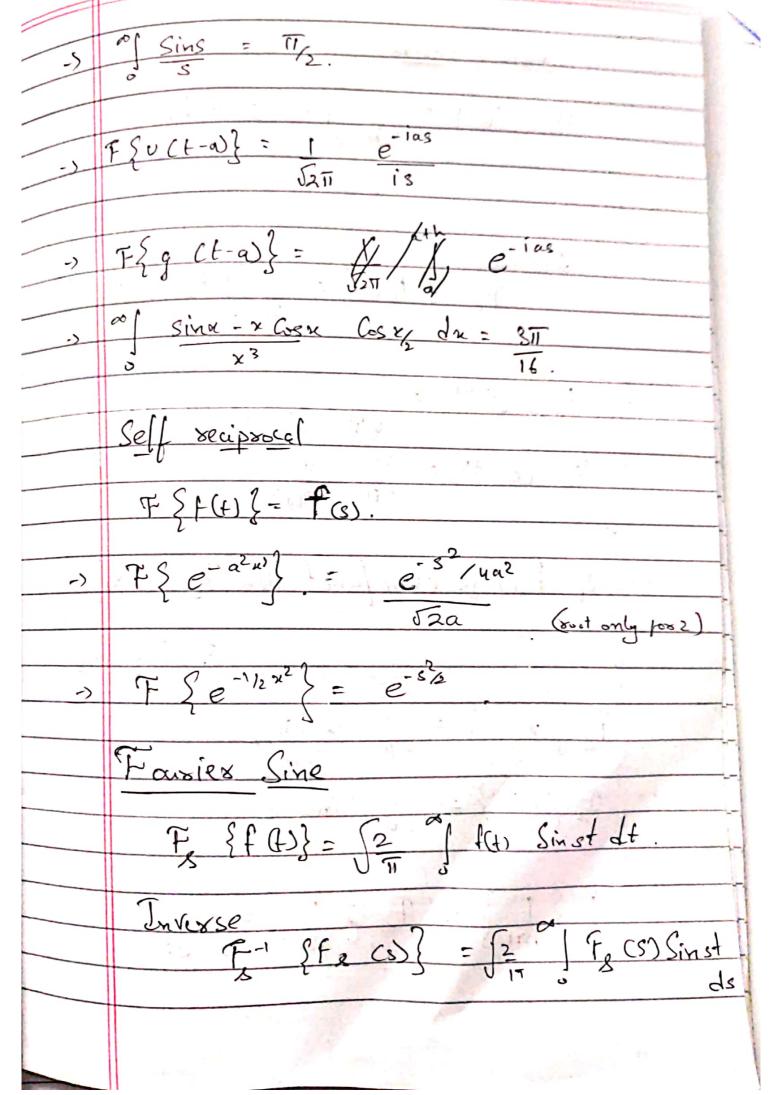
	classmate
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100	Piecewise cont. function
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->	If there are lomp distortion
	If there are Imp discontinuties then they have to be not infinity.
	1. Lath Puc & Eo Hon
->	If a function is points.
(r) (r)	If a function is both Pwc & Eo then Captace will 100% exists.
Mrs.	of anyothing is nothere the Transform may
7	of anyothing is
M. S.	08 may not cuso.
	LT dosent exist for et? tant, logt.
	LI dosent ons poo
Mi-	Colilling Theorem
me	S- Shifting Theosen
->	L & f(t) = F(s).
->	$[\{ \{ e^{a+} \} \} \} = f(s-a) $ $[\{ \{ \{ \{ \{ \{ \{ \{ \} \} \} \} \} \} \} \} \}] = e^{af} f(f) $ $[\{ \{ \{ \{ \{ \{ \{ \{ \{ \} \} \} \} \} \} \} \} \} \} $
->	L^{-1} f $CS-9$ f f f f
-)	L-1 SF CS-00} = eaf L-1 F(S)
Tellingen	L J E J
→ ·	[Se-af f(x) = f (Sfa)
44.	
->	L-1 { F (S+a) } = e-a+ L-1 [F (S)]
·	and in the second second
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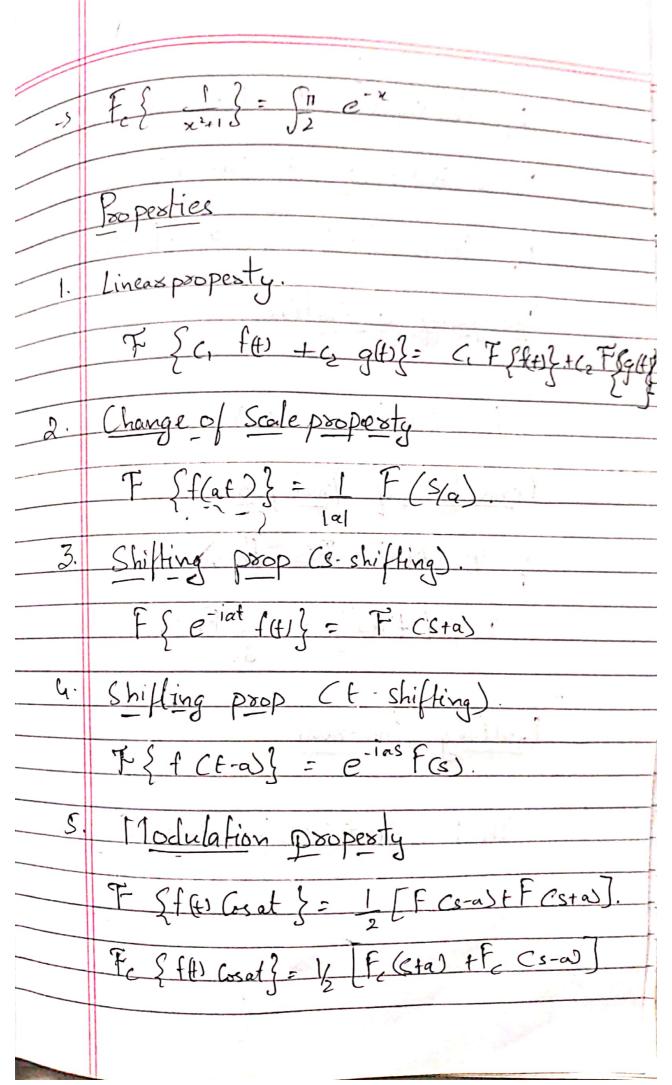


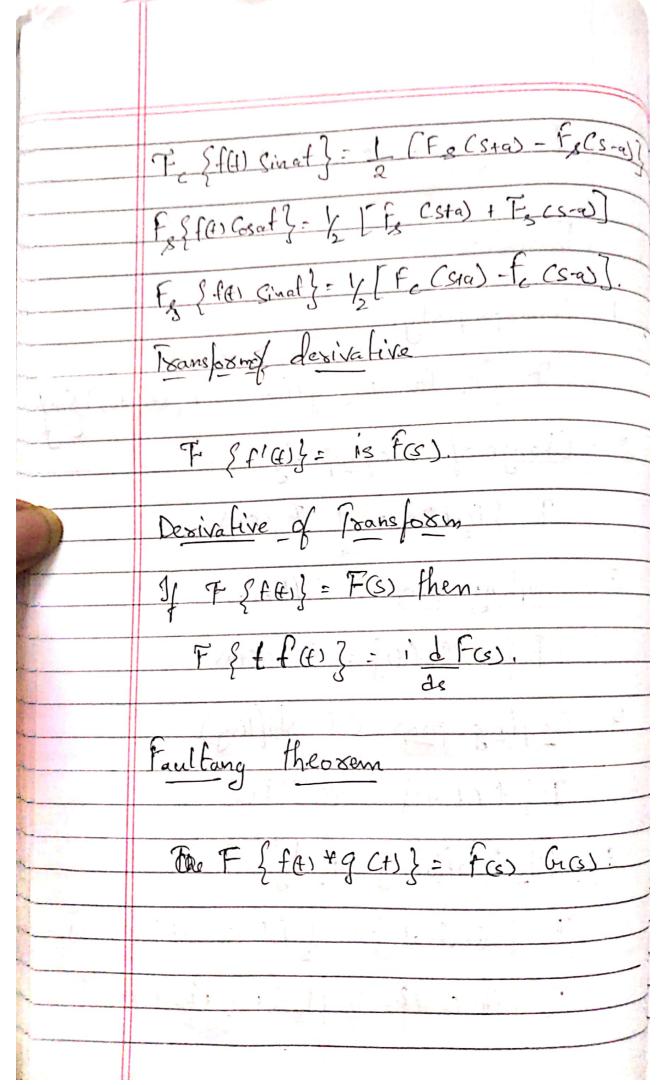


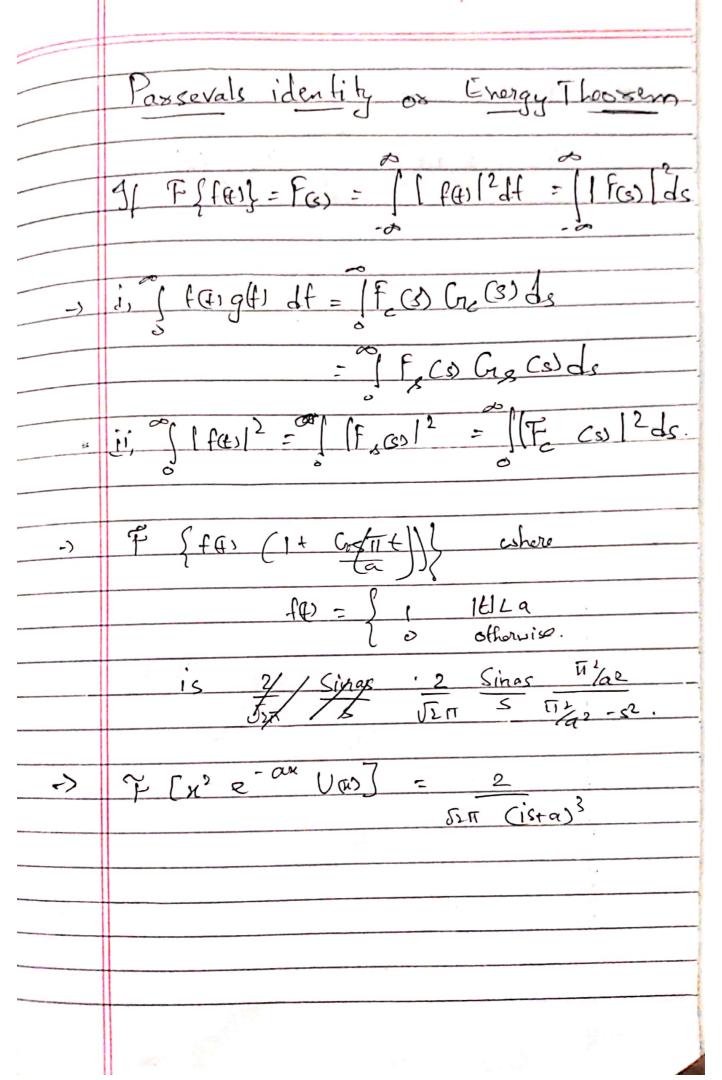
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	Fourier Cosine
	To {(a)} = 5= faicosstdt.
	= F _c (s).
	Inverse. For \{ \text{Forest} = \int_{17} \text{o} \text{Forest} \text{ds},
-)	$F_{s}(e^{-\alpha t}) = \int_{T}^{2} \frac{S}{\alpha^{2} + s^{2}}$
-)	F. (e-at) = \(\int 2 \) \(\text{Q} \) \(\text{S}^2 + a^2 \)
	If Fox is even funct then Fe { + ox}
	= F{fa}.
-, F	$\frac{2}{2}\left\{x^{n+1}\right\} = \int_{\overline{\Pi}}^{2} \frac{\cos n\pi}{\sin n}$
	Fg {x mi} = \int_2 \sin ma/2 \sin \frac{\sin ma/2}{\sin \sin \frac{\sin ma/2}{\sin \sin \frac{\sin ma/2}{\sin \sin \frac{\sin ma/2}{\sin \sin \frac{\sin ma/2}{\sin \sin \sin \sin \sin \sin \sin \sin
-> (F { 1 } = F { 1 } = 1







 $T = \{x \mid f(x)\} = -1 \quad T \in \{f(x)\}$ $T = \{x \mid f(x)\} = 1 \quad T \in \{f(x)\}$ ds