:9:	Foxenbon Sersion:	Date: / /
Date	: 25th May Nome: 5	Rakskita C.U.
	At : 1251 : 425	HISECOMA.
	: Fourier Series & Golds Sem & Se	c: (V Sem & A) Sec.
	Phinomena wind python.	7
Giltu	b Repoiltony : Rakshita.	1 .
		1 TA1600/
Repor	A:- 00	
	$(1*6) = \int_{\infty}^{\infty} f(x-\xi) \hat{g}(\xi) d\xi$	+ 01 = (x))
	$f(w) = f(f(w)) = \int_{\infty}^{\infty} f(x) e^{i\omega x} dx$	Fourier transform
Carlo A	-00	S pair.
4,113	f(x) = F (Aw) = 1 (f(w) . ew dw.	0
	$\frac{1}{f(x)} = \int_{\infty}^{\infty} f(x-\xi) \hat{g}(\xi) d\xi.$ $f(w) = f(f(w)) = \int_{\infty}^{\infty} f(x) \hat{e}^{i\omega x} dx.$ $f(x) = \hat{f}'(Aw) = \frac{1}{2\pi} \int_{-\infty}^{\infty} f(w) \cdot \hat{e}^{i\omega x} dw.$ $x\hat{g}) = \hat{f}(f) \hat{f}(g) = \hat{f}\hat{g}$	those studies
F(+	$x\hat{g}) = f(x) f(y) = \hat{g}$	
- 51	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mol ciduo lon
F (:	$\hat{\xi}$ = $\frac{1}{2\pi} \int \hat{\xi}(\omega) \hat{\xi}(\omega) \hat{\xi}(\omega) \cdot d\omega$.	4. (A)).
		N 19 1
Data	Driven: - KAZI IN KALI	1 (x) ; ; ;
+(x)	$Driven: = \frac{Driven: -}{E} C_{K} e^{ik\pi x} L W_{K} e^{ik\pi} L $	3L.
C	1 CON 10. 1 - 1 CON - 1KMX b.	
<u></u>	= 1 < f(x), (15) = 1 f(x) e dx	1. 02.
Pt. N	= lim & Aw Jaw - 1(5) - 1KAWS ds	9 Lada 2
+(%)	4w to K=00 2t 1/5/e ds	e
	- NAW	
- T	Pourier transform Derivatives 1-1001	Tourin Seri
AND DESCRIPTION OF THE PERSON		
C (3	$\frac{1}{ x }f(x) = \int_{-\infty}^{\infty} \frac{df}{dx} = \int_{-\infty}^{\infty} \frac{dx}{dx}$	Town Line
1 4	dv u	Louis During Days
Thurs	r transform & convolution:	oc com dations who
TIDA	(0) = F(L) F(0) = Lô	O A
	$(g) = F(f) F(g) = f\hat{g}$ = $f * g$.	x) > = x0
BURE M. O.		

	Date: / /
	Butuition of Fourier transform & Laplace Banform:
	F(w) = 500 f(t) e dt, -iwt = cox (wt) - isin (wt)
	F(w) = In f(t) (concot - inemot) dt
	F(w) = 10 tet/(correct - inemwt) dt
	(0)
	F(w) = \int \frac{1}{4(t)} \colon \colon \dt - \cdot \int \frac{1}{2} \frac{1}{4(t)} \colon \colon \cdot \c
	(In ta) [(a) Tall by
	$\int_{-\infty}^{\infty} (\cos \pi x) \left[\cos \pi x \right] dt = \infty.$ Fourier: $f(w) = \int_{-\infty}^{\infty} f(t) e^{iwt} dt$. Laplace: $f(s) = \int_{-\infty}^{\infty} f(t) e^{-st} dt$
	Tourier: f(w) = 1 f(t) ewl. dt. Laplau: f(s) = 2 f(t) e. dt
	Laplan Transform of First order:
	Applications of 2-Transform:
	Difference equation:
	14n+2+4n=2.
	$\Delta f(x) = f(x+h) - f(x).$
- 11	linear difference equations: It is defined as an equation in which your,
	Un+2 ile occur to the first defreu only & separately.
	Ynth + a, ynth-1 + apynth-2 + + abyn= f(n) -+ (1).
	Thus, the general solur ofler in In = c.f + P.Z.
	44n-4n+2 =0, with 40=0 & 41=2.
	Taking x-T, 47(Un) =7(Un+2)=2(0)=0
	WAT, \(\(\mathred{U} \) = \(\frac{\mathred{U}}{\tau} \) - \(\mathred{U} \) - \(\m
	4U(x)-22[U(x)-40-4]=0
	HU(X) - Z [U(X) - 0 - 2] ZD
	The 7-Transform of Dequence ming Mottab:
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