Poojary Sushmita shvinivas DSP HALIGECOH6. 6B - 26/5/2020 Fourier transform derivatives, laplace transform, z transform * The fourier transform f(x):[-1,1]-2C we have ortogoneal exp \$ f(x) = \(\int \cho \cho \nu \times \right) \) $Cn = \frac{1}{aL} \left(f(y) e^{-\pi y L} \right)$ Now lots take limit >00 ford setting Kn=no1/2& DX= J1/2 & 5 we can write as, f(x)=1 = (Sf(y) e-knydy)

Tourier transform convolutions: The inverse transform of a product of function is not the product of transform defined as (f x 9)(x) = (f(x y) g(y) dy using the defination, fourier transform of this (f xg)" = ((x-y) g(y) e-ih xz wing the change of Variable z=x-y thisbecomes, 5 ((x) 9 (y) e in (y+2) yd z (ff(z)e-ikz dz) (f g(y)e-iky y) = f(k)g'(k)* The intension behind tourier & laplace transforms, f(w) = f f(t) e-Jwt.dt e-jut = cos(wt) -isin(wt) $F(\omega) = \int_{-\infty}^{\infty} f(t) \cos(\omega t) dt - i \int_{-\infty}^{\infty} f(t) \sin(\omega t) dt$

Trades of or Loplace transform i light order can, 1(1)= (+(1)e"/4 ED: ("e" e" d1 (0-2) J. H. G. 34. (30) + (20) + (20) = 54(5) -4(0) Transform of dy/d+. 54(1) - 4(0) - 0 4(0) = 0 1/0 = 4(0) = 1/1 (0) = (1) t 4(t)-4(g)00+ => 1 6 ct-60+

26/5/2010 Python report # Application 4:- Build a personal website with pything & flask first create a python file & then write the > Building website's code in that file, from flask import flask app-flask (name) det name (): yeturn " webside content goes here!" If name -= " main " app-run (debug true) from flash import flash, sender-templets app = Flash (- name) (a) app. youte ('/') det name (): return render templeate ("name.html") @ app. route ('la bout!') def about (): return sender templeate ("about himle) if name = main appiran (debugidari)

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