Carlos Luila	catros shipmed ray
al al	Lista 12 - CTV
b)	$f(t) = e_{0}(2\pi at)$
J.	pode van ditida fola difimição: $ f = \int_{-\infty}^{\infty} e^{-2\pi i \omega t} e^{2\pi i \alpha t} dt $ $ f = \int_{-\infty}^{\infty} e^{-2\pi i \omega t} \left(e^{2\pi i \alpha t} + e^{2\pi i \alpha t} \right) dt $ $ f = \int_{-\infty}^{\infty} e^{-2\pi i \omega t} (y - a) + e^{-2\pi i \omega t} (y + a) dt $ $ f = \int_{-\infty}^{\infty} e^{-2\pi i \omega t} (y - a) + e^{-2\pi i \omega t} (y - a) dt $
lom uma tabala	$f_{+} = \frac{1}{2} \left[\delta(p-a) + \delta(p+a) \right]$
a)	y" + 3y = t 0≤t≤1 y'(0) = y'(1) = 0 4 Cordieño de Neumann
Awaim, profonde	Y(t) = Co + E Cn los (nIIt/L)
	$y'(t) = \frac{\mathcal{E}}{\mathcal{E}} - n\pi \operatorname{Cn} \operatorname{Lssn}(n\pi t/L)$ $y''(t) = \frac{\mathcal{E}}{\mathcal{E}} - n^{2}\pi^{2} \operatorname{Cn} \operatorname{Lssn}(n\pi t/L)$ $y''(t) = \frac{\mathcal{E}}{\mathcal{E}} - n^{2}\pi^{2} \operatorname{Cn} \operatorname{Lssn}(n\pi t/L)$ $n=1 L^{2}$

Credeal

Co = 2 / f(t) dt Cn = 9 / f(t) eos(nTT/L) dt $C_0 = 2 \int_0^1 t dt = 2 \left[\frac{t^2}{2} \right]_0^1 = 2 \left[\frac{1}{2} - 0 \right] = 1$ Apolin, o Co purá: Cn = 2 / tem(nort)dt + u=t; du-dt; dr=cm(nort)dt. the mon (not)/mr = uv- vdv = 2 [t men(not)] -1 sun(not)t $\Rightarrow 2 \left[\frac{1}{n^{2}\pi^{2}} \log (n\pi t) \right]^{1} - 2 \left((-1)^{m} - 1 \right) \Rightarrow \mathcal{E} - C_{n} n^{2}\pi^{2} \operatorname{ess}(n\pi t) + \cdots$ $= \frac{1}{n^{2}\pi^{2}} \log (n\pi t) = 1 + \mathcal{E} \cdot 2 \left((-1)^{m} - 1 \right) \operatorname{ess}(n\pi t)$ $= \frac{1}{2} + \mathcal{E} \cdot 2 \left((-1)^{m} - 1 \right) \operatorname{ess}(n\pi t)$ $= \frac{1}{2} + \mathcal{E} \cdot 2 \left((-1)^{m} - 1 \right) \operatorname{ess}(n\pi t)$ $= \sum_{n=0}^{\infty} \left(\frac{3}{2} \left(\frac{3}{2} - \frac{3}{2} \left(\frac{3}{2} - \frac{3}{2} \right) - \frac{9}{2} \left(\frac{3}{2} - \frac{3}{2} \right) \right) + \left(\frac{3}{2} \left(\frac{3}{2} - \frac{3}{2} \right) \right) = 0$ => (0=1/3; Cn= 2((-1)^n-1) : carultarluct micro y'(0) = 0 - toutients: $y'(0) = \frac{g}{m\pi} \frac{-g}{m\pi} \frac{((-1)^n - 1)}{(3 - m^2 \Pi^2)} tout (\pi\pi 0) = 0$