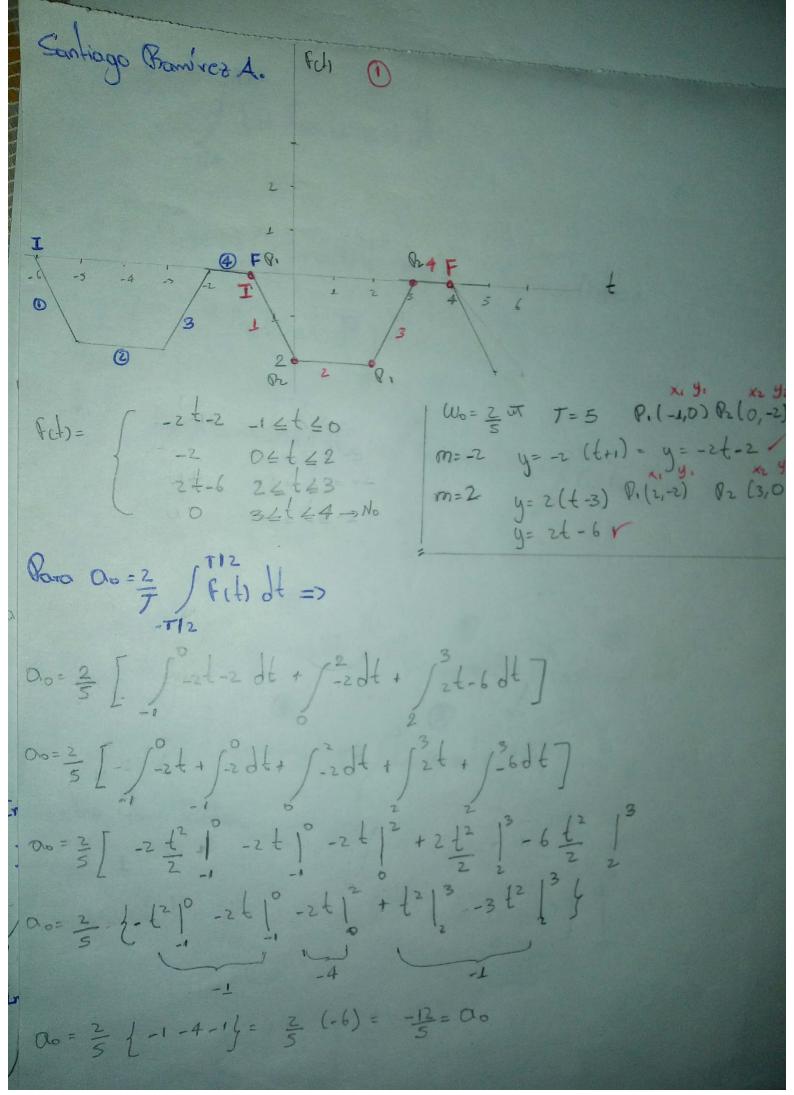
· Comunicaciones I Santiago Bamirez Avenas. · Preguna 1 V · Pregunto 2 V · Pregunta 3 F · Pregunta 4 V · Pregunta 5 V · Proposta ? V · Pregunta 8 F · Pregunta 9 Ninguna de los anteriores · Pregunta 10 Ninguna de las anteriores. · Pregunta 11 Con n=5 -> Procedimiento en las otras nojas. $f(t) = -\frac{6}{5} + \sum_{n=1}^{\infty} \frac{-5}{n^2 \pi^2} \left[\left[1 - \left(\cos \left(\frac{2\pi n}{5} \right) + \left(\cos \left(\frac{4\pi n}{5} \right) \right) + \left(\cos \left(\frac{4\pi n}{5} \right) \right) \right]$ · Cos (zant) + Sen (zan) - Sen (6n a) + Sen (4 an). Sen (200 n=5 $f(t) = -\frac{6}{5} \sum_{n=1}^{5} \frac{5}{(1)^{2} \pi^{2}} \left[\left[1 - \left(\cos \left(\frac{2\pi(1)}{5} \right) + \left(\cos \left(\frac{6\pi(1)}{5} \right) \right) + \left(\cos \left(\frac{4\pi(1)}{5} \right) \right) \right]$ · (os (2 x (1) + | Sen (2 x (1)) - Sen (6 (1) x) + Sen (4x (1))] . Son (200(1)+(0) [1-(0)(200(2))+(0)(600(2))+...

$$\begin{array}{c}
+ \left(\cos \left(\frac{4\pi(2)}{5} \right) \right) \cdot \left(\cos \left(\frac{2\pi(2)}{5} \right) + \left[\sec \left(\frac{2\pi(2)}{5} \right) - \sec \left(\frac{6\pi(3)}{5} \right) + \left(\cos \left(\frac{4\pi(2)}{5} \right) \right) \right] \\
- \left(\cos \left(\frac{4\pi(3)}{5} \right) \right) \cdot \left(\cos \left(\frac{2\pi(3)}{5} \right) + \left[\sec \left(\frac{2\pi(3)}{5} \right) + \left(\cos \left(\frac{6\pi(3)}{5} \right) + \left(\frac{6\pi(3)}{5} \right) \right) \right] \\
- \left(\cos \left(\frac{4\pi(3)}{5} \right) \right) \cdot \left(\cos \left(\frac{2\pi(3)}{5} \right) \right) + \left[\sec \left(\frac{2\pi(3)}{5} \right) - \left(\frac{6\pi(3)}{5} \right) + \left(\frac{6\pi(4)}{5} \right) + \left(\cos \left(\frac{4\pi(4)}{5} \right) \right) \right] \cdot \left(\cos \left(\frac{2\pi(4)}{5} \right) + \left(\cos \left(\frac{2\pi(4)}{5} \right) - \left(\frac{2\pi(5)}{5} \right) + \left(\frac{2\pi(5)}{5} \right) \right) \cdot \left(\frac{2\pi(5)}{5} \right) + \left(\frac{2\pi$$



· Poro an = Ital Cos (nubb) dt On= $\frac{2}{5}\left[\int_{1-2t-2}^{0}(\cos(n\omega_0t)dt + \int_{-20}^{2}(\cos(n\omega_0t)dt + \int_{20}^{2}(2t-6)(\cos(n\omega_0t)dt)\right]$ an= = [-2 /t (os(nwot) dt -2 / Cos(nwot) -2 / Cos(nwot) dt 2 / t (oslawol) dt - 6/3 (oslawot) dt] an = 2 [-2 [f (odnwol) + f (os (o wol) + f cos (n wot) dt -1 ((o) (nwot) +3 ((o) (nwot)]] Integrales de tabla.
Integral 1 It (os (nwot) dt = 1 [t Sen (nwot) + (os (nwob)]] Integral 2 Son (nevot) J Cos(nwot) dt =

Integral 3 Scor(nwot) dt = Sen (nwot) |2 Integral 4 - [t Cos(nwot) dt = -1 [t Sen (nwot) + (os (nwot)]]

nwo [t Sen (nwot) + (os (nwot)]] Integral s 3 (Cos(n wot) dt = gSen (n wot) | 2 Agropo. · nwo [t Senlawot) + Cosenwot) + Senlawot)] Towo [Sen (nwot) (t+1) + Cos (nwot)] · Son (nwot) /2 -1 [t Sen (nwot) + (os (nwot) - 3 Sen(nwot)]]

nwo [13 -1 Son (nwot) (t-3) + Coshwot) /2

Vactorizo 1 I [Sen(nwot) (t+1) + (os nwot] + Sen nwot]

nwo [[Sen(nwot) (t+1) + (os nwot]] + Sen nwot] (-1) [Sen (n wot) (t-3) + Cos n wot]] [O Sen (nwot) (++1) + (05 10 wot) = (1 - (6) (2001)) = 1 - (0) (2001) 5. © Sen (nwot) |= Sen (400) / 3 (-1) [Sin (nivol) (f=3) + (0) (nivol)] = (-1) (6) (6) + Sen (4) - 5 (6) (4)] = - (0) (6 mn) (5) - Sen (4 mn) + 5 (0) (4 mn) /

2 mn

Agrupamos

(0) (3 mn) (5) 1 - (03 (2 mn) (5) + Sen (4 mn) - (03 (6 mn) (5) - Son (4 mn) +

NWO 2000 + Sen (4 mn) - (03 (6 mn) (5) - Son (4 mn) + 5 (0) (4 mm) = V

$$\frac{1}{n\omega_0} - \frac{1}{(\cos(\frac{2\pi n}{5}))(5)} - \frac{1}{(\cos(\frac{6\pi n}{5}))(5)} + \frac{1}{(\cos(\frac{4\pi n}{5}))(5)} = \frac{1}{($$

Pava bn = 2 / Fits Sen (nwot) df bn= = [[(-zt-z) Sen (nwol) dt + [-z Sen (nwot) dt + 13 (2t-6) Sen In wot 1 dt] bn= 2 [-2 [f (Sontnuot) + f (Son (nwot)) + f (Son (nwot) -1 ten (nwot) dt = 1 rwo [sen (nwot) - t (os (nwot)] ! Integral 2 Josen (nwot) = - Cos (nwot) Integral 3 Jen (nwob) dt = - (os (nwot))

of Sen (nwob) dt = - (os (nwot)) Integral 4 - St Ser (nwot) = - inwo [ser (nwot) - t los (nwot)] ?

Beorgonizo Con los Coeficientes Fct)= = = = [[-1] + [-5] + [-5] - [[-605 [2] + [605 [6]] + [605 [6]] + [605 [6]] + [605 [6]] + [605 [6]]] + [605 [6] (cos (4 xn)] · (cos | 2 xn t) + [Sen (2 xn) - Sen (6 n x) + Sen 4 xn) Sen (zant) Con n=5