Sore togonome très de tourier 18/0000 A De do + E ancos met + bu sen not t fit at If f(t) co zet 1t - f(t) son art dt io: Para una sera ($f(t) = \begin{cases} 1 \\ -1 \end{cases}$ K445L 2-4440 l carlelle de les aéparentes: f(+) dt -21T -TT T 21T t (1)at + | # at |

$$a_{n} = \frac{1}{T} \left[-\left(\frac{\sin(nt)}{T}\right) \right]^{\frac{1}{2}} + \frac{\sin(nt)}{T} \left[\frac{1}{T} \left(-\frac{\sin(nt)}{T}\right) \right]^{\frac{1}{2}} + \frac{\sin(nt)}{T} \left[\frac{1}{T} \left(-\frac{\sin(nt)}{T}\right) \right]^{\frac{1}{2}} + \frac{\sin(nt)}{T} \left[\frac{1}{T} \left(-\frac{\cos(nt)}{T}\right) \right]^{\frac{1}{2}} + \frac{\sin(nt)}{T} \left[\frac{1}{T} \left(-\frac{\cos(nt)}{T}\right) \right]^{\frac{1}{2}} + \frac{\cos(nt)}{T} \left[\frac{\cos(nt)}{T} \left(-\frac{\cos(nt)}{T}\right) \right]^{\frac{1}{2}} + \frac{\cos$$

percicio: Seres de Tourer 7/3 ! t= (-t+π ο(t+< f(t) = au + Su ancosnat + bu sent $\frac{1}{L}\int_{-L}^{L}f(t)dt = \frac{1}{L}\int_{-L}^{L}(-t+\pi)dt = \frac{1}{L}\left[-\frac{t^{2}}{2}+\pi t\right]_{0}^{T}$ $\frac{1}{\pi} \left[-\frac{\pi^2}{2} + \pi^2 - \left[0 \right] \right] = \frac{1}{\pi} \left[\frac{\pi^2}{2} \right] = \frac{\pi}{2}$ $\frac{1}{L}\int_{0}^{T}\left(-t+\pi\right)\cos\frac{n\pi t}{L}dt=\frac{1}{\pi}\left[\left(\int_{0}^{\pi}t\cos(nt)dt+\pi\right)\left(\cos(nt)dt\right)\right]$ $sen(n+) + cos(n+) = \frac{sen(n+) + cos(n+)}{n^2} = \frac{sen(n+) + cos(n+)}{n^2}$ (i) sen(n+)(i) sen(n+)(i) sen(n+)(ii) sen(n+)(iii) sen(n+)(iii) sen(n+)(iii) sen(n+)(-) $\left[\frac{1}{n^2}\cos(nt)\right]^{\frac{n^2}{n^2}}$ + $\frac{\pi}{n}$ sen(nt) $\left[\frac{\pi}{n}\right]$ $\frac{1}{n^2} \left[\frac{\cos(m\pi)}{n^2} - \frac{1}{n^2} \right] = \frac{1}{\pi} \left[\frac{1}{n^2} - \frac{1}{n^2} (-1)^n \right]$ $an = \frac{1}{\pi n^2} \left[1 - (-1)^n \right]$

$$\int_{n}^{\infty} \frac{1}{\pi} \left[\int_{0}^{\infty} \int_$$

mayo oy, wzy Para la Signate fraisse: Elevis C $a_0 = \frac{1}{L} \int_{-L}^{L} f(t) dt = \frac{1}{\pi} \left(-\frac{1}{L} + \frac{1}{L} + \frac{1}{L} + \frac{1}{L} + \frac{1}{L} \right)$ al final one quida $Q_n = \frac{1}{\pi} \left[-\int_{-\pi}^{\pi} (t) \cos(nt) dt + \int_{\pi}^{\pi} (t) \cos(nt) dt \right]$ Jeando la regla $\begin{array}{c} (-t) \\ \leftarrow \\ (-1) \end{array} \qquad \begin{array}{c} cor(nt) \\ \rightarrow cn(nt) \\ n \end{array}$ - cos (ut) claye a $a_n = \frac{2}{\pi^2} \left[(-i)^n - i \right]$

y rora lon després de tale el alesarrollo queda $b_n=0$: $f(t)=\frac{\pi}{2}+\sum_{i=1}^{n}\left(\frac{2}{\pi n^2}\right)\left[\left(-1\right)^n-1\right]\cos(nt)$