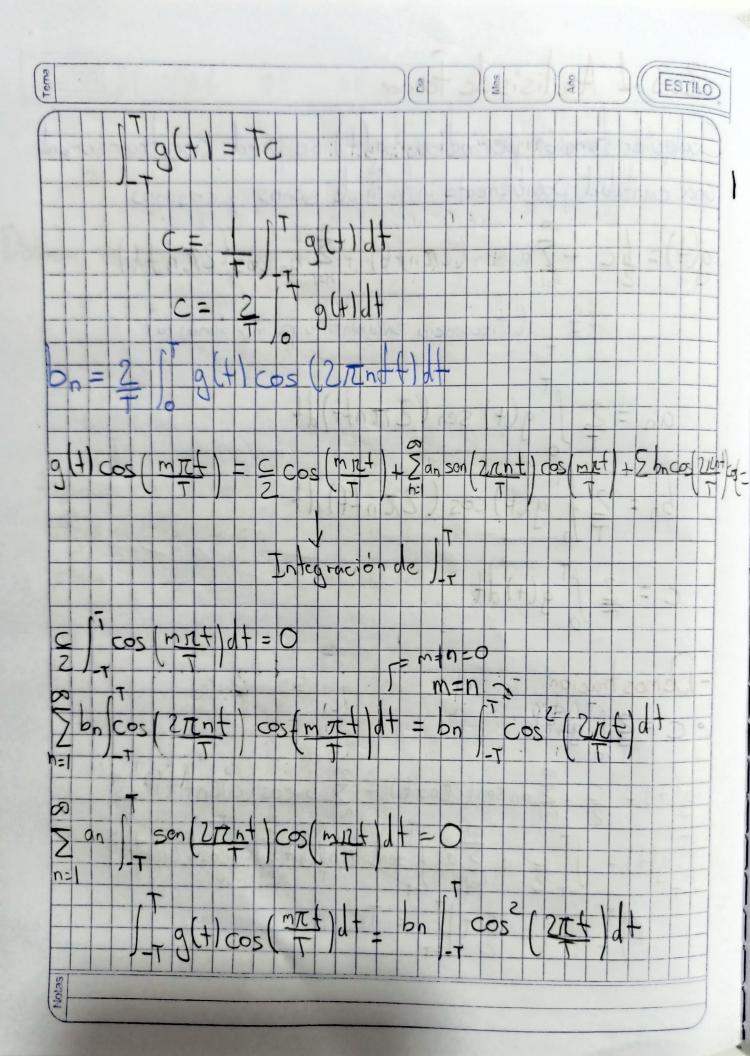
\$2.3.1 Analisis de tourier Calquier tunción periodica q(t) se puede construir sumando una cantidad posiblemente infinita de senos y cosenos $g(t) = \frac{1}{2}c + \sum_{n=1}^{\infty} a_n son (2\pi n f t) + \sum_{n=1}^{\infty} b_n cos(2\pi n f t)$ J= 1 (treccencia tendamental à primer armonico an = 2 | g(t) sen (271 nft) dt bn = 2 | g(+) cos (2x nf4) d+ c = 2 / g(+) dt · C = 2 | g(+) g(+) = C + Z an ser (27 nft) of Z bncos (27 nft) $\int_{-T}^{T} g(t) = \int_{-T}^{T} \frac{1}{z} + \sum_{n=1}^{\infty} a_n \int_{-T}^{T} \frac{1}{z} e_n (2\pi \pi L t) + \sum_{n=1}^{\infty} b_n \left(\cos \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(\cos \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(\cos \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(\cos \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(\cos \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(\cos \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(\cos \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(\cos \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(\cos \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(\cos \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(\cos \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(2\pi \pi L t \right) + \sum_{n=1}^{\infty} b_n \left(2\pi L t \right) + \sum_{n=1$)_T g(+) = = TC



fig(+) cos (m/r) d= bn T. Firepredudes (ESTILO) $\frac{1}{2} = \frac{2}{7} \int_{0}^{7} g(t) \cos(2\pi n f t) dt$ $\frac{1}{2} \int_{0}^{7} g(t) \sin(2\pi n f t) dt$ g(t) San $(m\pi x) = \cdots$ C San (m: 72+ d+ = 0 1-cos (271n+) son (m) + d+=0 $\int_{-T}^{T} \operatorname{Sen}\left(\frac{n\pi x}{T}\right) \operatorname{Sen}\left(\frac{m\pi x}{T}\right) dt = \int_{-T}^{T} \operatorname{Sen}^{2}\left(\frac{2\pi nt}{T}\right) dt = \int_{-T}^{T} \operatorname{Sen}^{2}\left(\frac{2\pi nt}{T}\right) dt$ [] g(+) son (2 nn+) d+ = an [son2 (2 nn+) d+ an = 2 1 g(+) sen (2/2nft)d+