

Elemple: See

$$f(t) = \begin{cases} 1 + t & -1 < t < 0 \\ 1 - t & 0 < t < | \end{cases}$$
Encuent: su representación como serie de Fourier real.

$$1 = 1$$

$$0 = \frac{1}{L} \int f(t) dt = \int f(t) dt = 1$$

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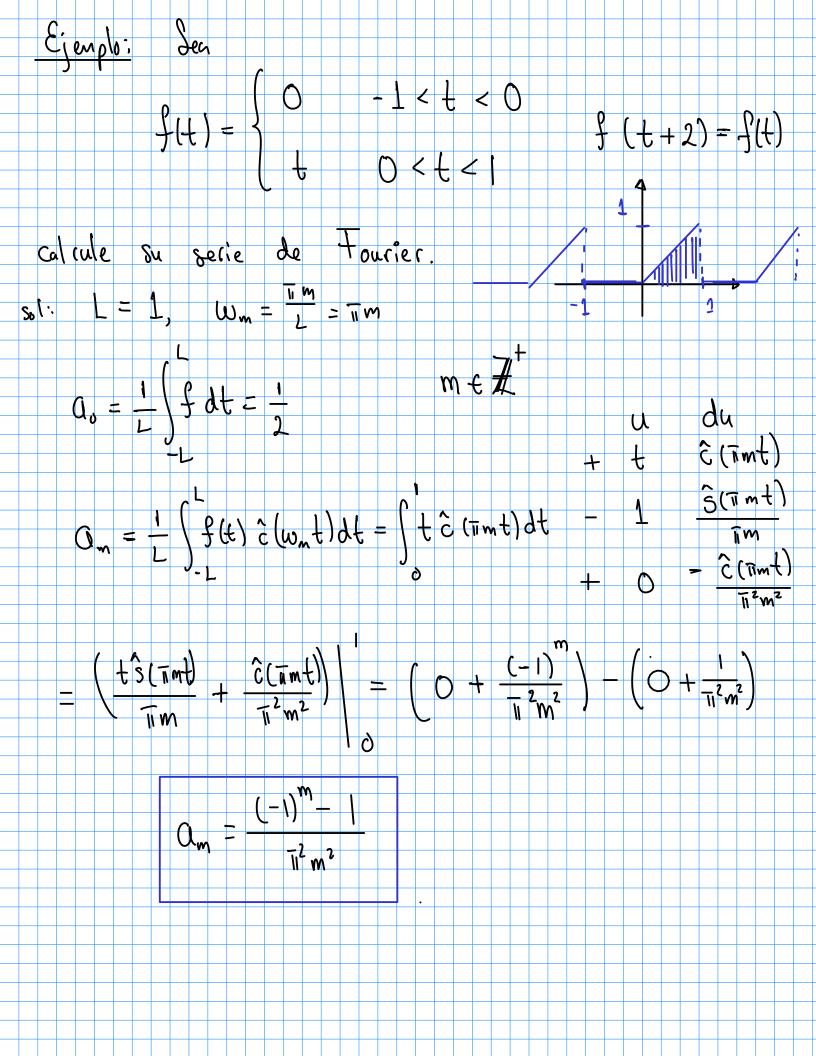
$$0 = \frac{1}{L} \int f(t) dt = 1$$

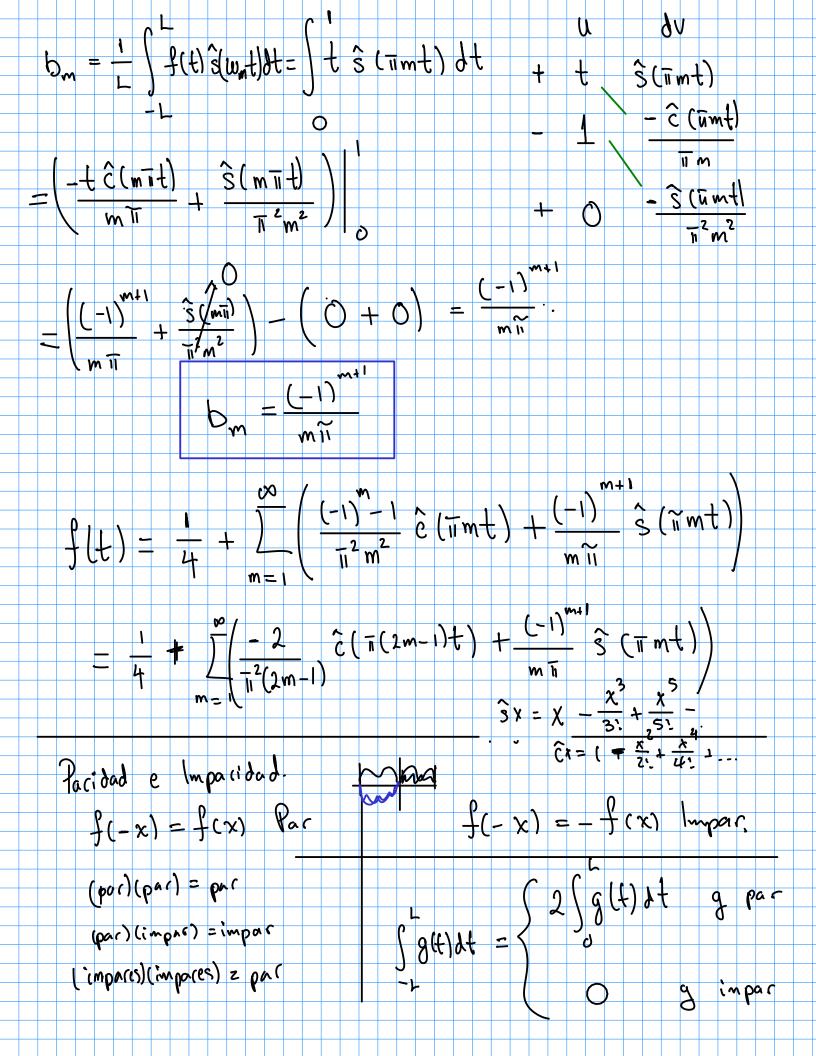
$$0 = \frac{1}{L$$

$$\int_{0}^{1} (1-t)^{2} w_{n}t \, dt = \frac{1}{n^{2}m^{2}} \left(1-\cos(n^{2}m)\right)$$

$$O_{m} = \frac{2}{n^{2}m^{2}} \left(1-\cos(n^{2}m)\right)$$

$$O_{m} = \frac{1}{n^{2}m^{2}} \left(1-\cos(n^{2}m)\right)$$





$$\int_{-1}^{1} f(t) = f(t) \Rightarrow \int_{-1}^{1} f(t) dt = \int_{-1}^{1} f(t) dt$$

$$\int_{-1}^{1} f(t) dt$$

$$\int_{-1}^{1}$$

$$\int (t) = 1 + \sum_{m=1}^{\infty} \frac{4 \hat{s}(\frac{\pi m}{2})}{\pi m} \cdot \hat{c}(\frac{\pi m t}{2})$$

$$= 1 + \frac{4}{\pi} \hat{c}(\frac{\pi t}{2}) - \frac{4}{\pi \cdot 3} \hat{c}(\frac{3\pi t}{2}) + \frac{4}{5\pi} \hat{c}(\frac{5\pi t}{2})$$

$$= 1 + \frac{4}{\pi} \sum_{m=1}^{\infty} \frac{(-1)^{m+1}}{(2m-1)} \hat{c}(\frac{(2m-1)\pi t}{2})$$