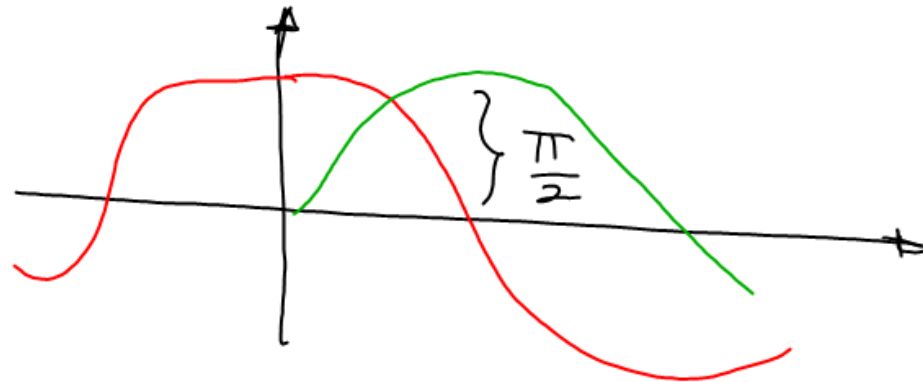
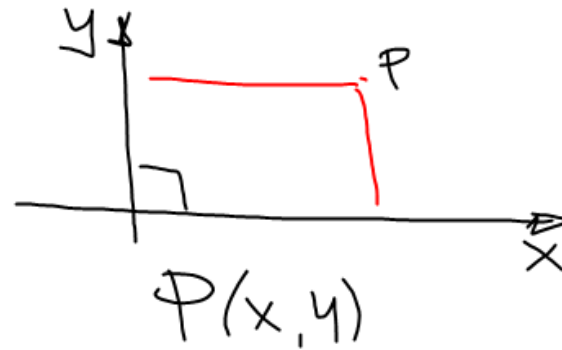
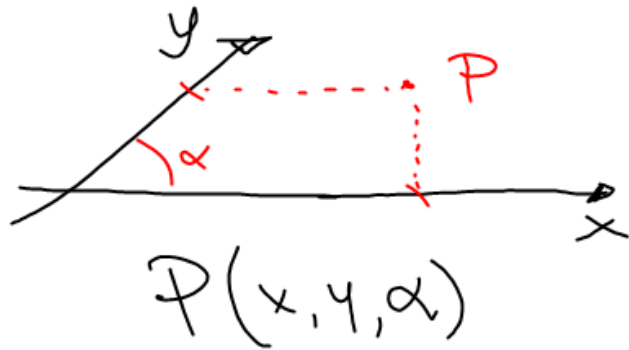
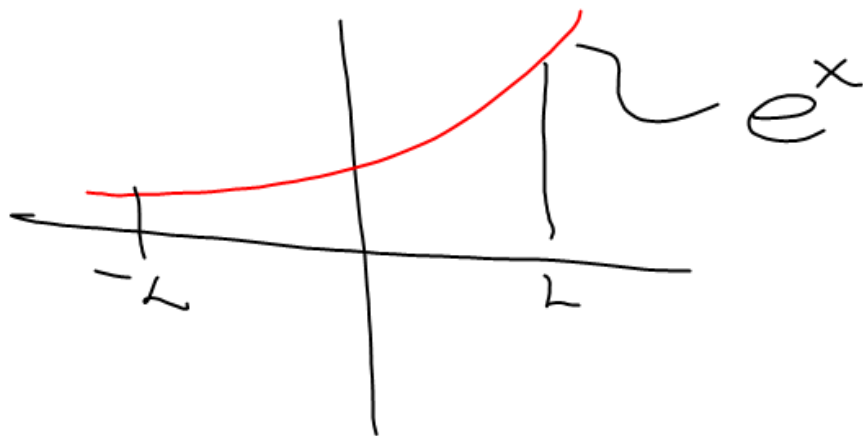


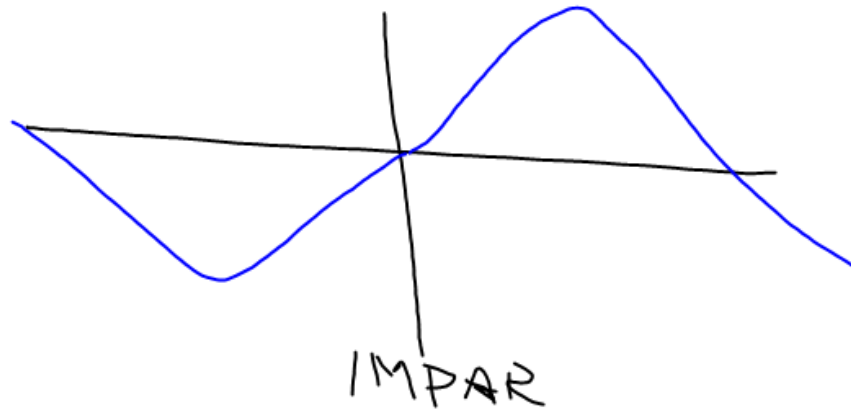
SERIE TRIGONOMÉTRICA DE FOURIER

Teoría de los ejes cartesianos



$$f(x) = \frac{a_0}{2} + \sum_{n=1}^{\infty} \left(a_n \cos \frac{n\pi}{L} x + b_n \sin \frac{n\pi}{L} x \right)$$





$$\langle \text{PAR} \rangle \langle \text{PAR} \rangle = \langle \text{PAR} \rangle$$

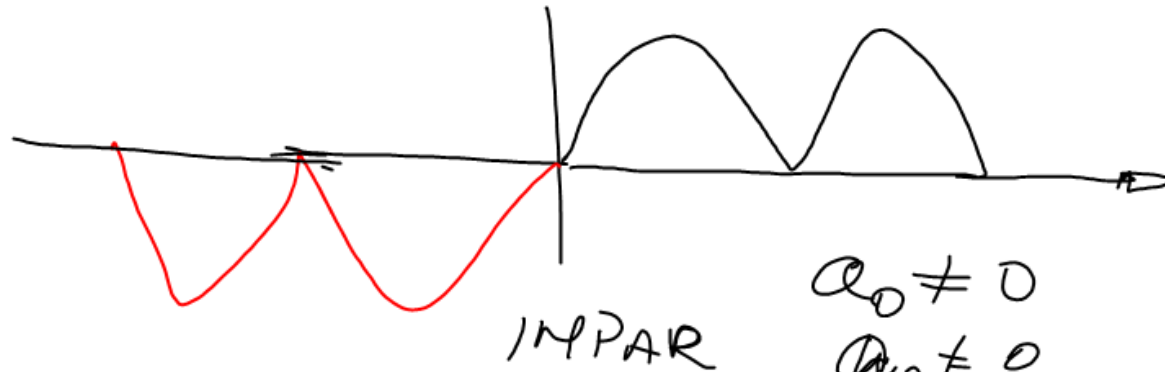
$$\langle \text{IMPAR} \rangle \langle \text{IMPAR} \rangle = \langle \text{PAR} \rangle$$

$$\langle \text{PAR} \rangle \langle \text{IMPAR} \rangle = \langle \text{IMPAR} \rangle$$

$$\int_{-L}^L \langle \text{PAR} \rangle = 2 \int_0^L \langle \text{PAR} \rangle$$

$$\int_{-L}^L \langle \text{IMPAR} \rangle = 0$$

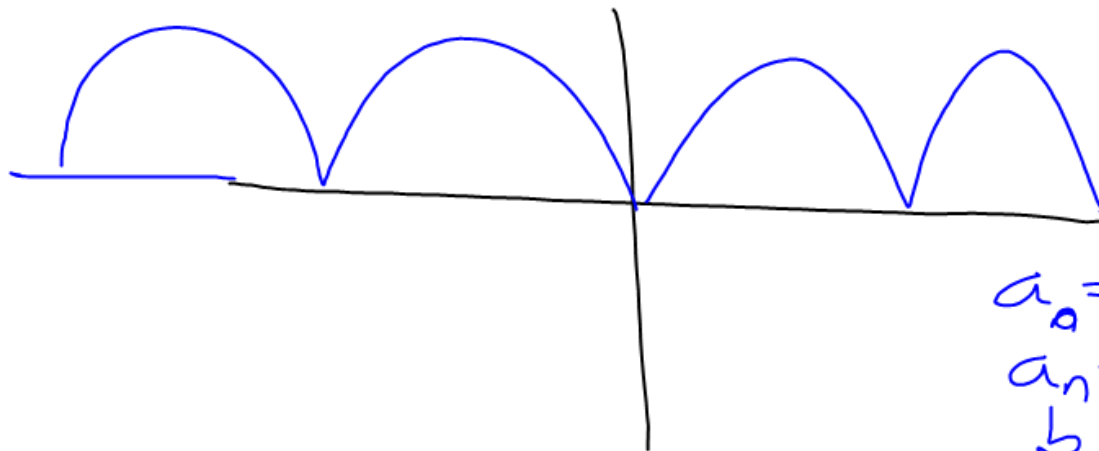
Obtener STK



$$a_0 \neq 0$$

$$a_n \neq 0$$

$$b_n = 0$$



$$a_0 = 0$$

$$a_n = 0$$

$$b_n \neq 0$$

$$a_0 = \frac{1}{L} \int_{-L}^L f(x) dx$$

$$a_n = \frac{1}{L} \int_{-L}^L f(x) \cos\left(\frac{n\pi}{L}x\right) dx$$

$$b_n = \frac{1}{L} \int_{-L}^L f(x) \sin\left(\frac{n\pi}{L}x\right) dx$$