## Análisis de Fourier

SERIE TRIGONOMETRICA

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$$F(t) = \underbrace{a_0}_{2} + \underbrace{\sum_{n=1}^{2} a_n \cos\left(\frac{2\pi n}{T}\right)}_{t=1} + \underbrace{b_n \operatorname{sen}(\frac{2\pi n}{T})}_{t=1} + \underbrace{b_n \operatorname{s$$

$$a_{0} = \frac{2}{6} \int_{-2}^{1} 2 dt + \int_{4}^{4} 4 dt$$

$$a_{0} = \frac{2}{6} \left( 2 + \left( \frac{2}{6} \right) + \left( \frac{4}{16} \right) + \left( \frac{16}{16} \right) + \left( \frac{16}{16$$

$$a_{n} = \frac{2}{7} \int_{a}^{a+f} f(t) \cos \left(2 \ln t\right) dt$$

$$a_{n} = \frac{2}{5} \int_{c}^{c} 2 \cos \left(2 \ln t\right) dt$$

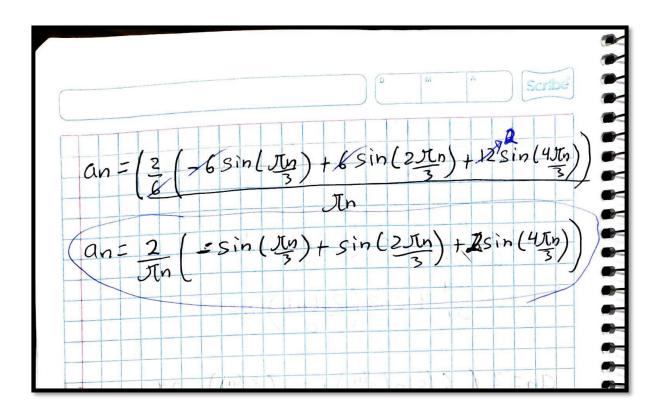
$$\int_{c}^{c} 4 \cos \left(2 \ln t\right) dt$$

$$a_{n} = \frac{2}{6} \left(6 \left(\sin \left(\frac{\pi \ln t}{3}\right) + \sin \left(\frac{2\pi \ln t}{3}\right) + \int_{c}^{c} 4 \cos \left(\frac{2\pi \ln t}{6}\right) dt$$

$$a_{n} = \frac{2}{6} \left(6 \left(\sin \left(\frac{\pi \ln t}{3}\right) + \sin \left(\frac{2\pi \ln t}{3}\right) + \int_{c}^{c} 4 \cos \left(\frac{2\pi \ln t}{6}\right) dt$$

$$a_{n} = \frac{2}{6} \left(6 \left(\sin \left(\frac{\pi \ln t}{3}\right) + \sin \left(\frac{2\pi \ln t}{3}\right) + 12 \sin \left(\frac{4\pi \ln t}{3}\right)$$

$$a_{n} = \frac{2}{6} \left(6 \sin \left(\frac{\pi \ln t}{3}\right) + 6 \sin \left(\frac{2\pi \ln t}{3}\right) + 12 \sin \left(\frac{4\pi \ln t}{3}\right) + 12 \sin \left(\frac{4\pi$$



$$b_{n} = \frac{2}{6} \int_{2}^{4} 2 \operatorname{sen} \left( 2 \operatorname{Jint} \right) d\epsilon$$

$$b_{n} = \frac{2}{6} \int_{2}^{1} 2 \operatorname{sen} \left( 2 \operatorname{Jint} \right) d\epsilon + \frac{2}{6} \int_{2}^{4} 2 \operatorname{sen} \left( 2 \operatorname{Jint} \right) d\epsilon$$

$$b_{n} = \frac{2}{6} \left( 6 \left( -\cos \left( \frac{1}{3} \right) + \cos \left( \frac{2 \operatorname{Jin}}{3} \right) \right) + \frac{2}{3} \int_{2}^{4} \operatorname{Jint} \left( \cos \left( \frac{1}{3} \right) + \cos \left( \frac{1}{3} \right) \right) + \frac{2}{3} \int_{2}^{4} \operatorname{Jint} \left( \cos \left( \frac{1}{3} \right) + \cos \left( \frac{1}{3} \right) \right) + \frac{2}{3} \int_{2}^{4} \operatorname{Jint} \left( \cos \left( \frac{1}{3} \right) + \cos \left( \frac{1}{3} \right) \right) + \frac{2}{3} \int_{2}^{4} \operatorname{Jint} \left( \cos \left( \frac{1}{3} \right) + \cos \left( \frac{1}{3} \right) \right) + \frac{2}{3} \int_{2}^{4} \operatorname{Jint} \left( \cos \left( \frac{1}{3} \right) + \cos \left( \frac{1}{3} \right) \right) + \cos \left( \frac{1}{3} \right)$$