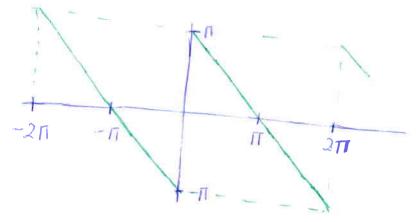
$$f(-x) = \Pi + x$$
 con $-x \in (2n\Pi, 2n\Pi + 2\Pi)$

$$-f(x) = -\Pi - x \qquad (on \quad \times \in (2n'\Pi, 2n'\Pi + 2\Pi)$$

Como f es periódica de periodo 211

$$-f(x) = -f(x+2\pi) = -\pi + (x+2\pi) = -\pi + x + 2\pi = \pi + x = f(-x)$$



$$a_0 = \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) dx = 0$$

$$f_{impair}$$

$$G_{n} = \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) \cos(hx) dx = 0$$

$$b_n = \frac{1}{\Pi} \int_{-\Pi}^{\Pi} f(x) \operatorname{sen}(nx) dx = \frac{2}{\Pi} \int_{0}^{\Pi} (\Pi - x) \operatorname{sen}(nx) dx =$$

$$= \frac{2}{\Pi} \prod_{0}^{\pi} \int_{0}^{\pi} \frac{\sin(\ln x) dx}{\sin(\ln x) dx} = \int_{0}^{\pi} \frac{x = u}{\sin(\ln x) dx} \frac{dx = du}{\sin(\ln x) dx} = V$$

$$= 2 \left[\cos(\ln x) \right]^{\pi}$$

$$= 2 \left[\cos(\ln x) \right]^{\pi}$$

$$=2\left[\frac{\cos(\ln x)}{n}\right]_{0}^{\Pi}-\frac{2}{\pi}\left(-\frac{x\cos(\ln x)}{n}\right]_{0}^{\Pi}+\int_{0}^{\pi}\frac{\cos(\ln x)}{n}dx\right)=$$