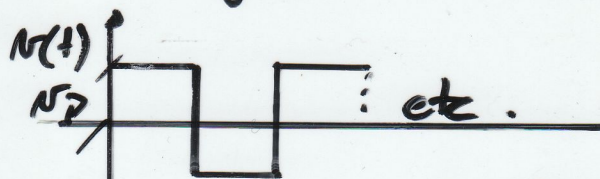


2) SEÑAL PERIÓDICA $\Rightarrow \sum_j (A_j \sin(\omega_j t) + B_j \cos(\omega_j t))$

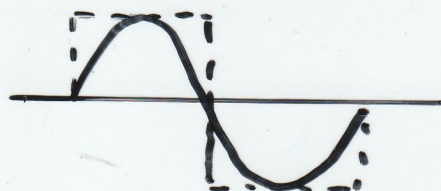
ω INFERIOR \rightarrow FUNDAMENTAL $\omega_j > \omega \rightarrow$ ARMÓNICAS

EJ: ONDA CUADRA

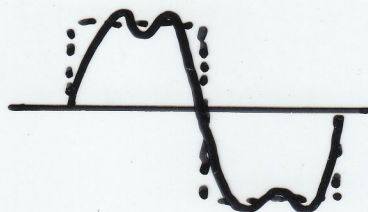


$$N(t) = \frac{4N_p}{\pi} \left[\sin(\omega t) + \frac{1}{3} \sin(3\omega t) + \frac{1}{5} \sin(5\omega t) + \dots \right]$$

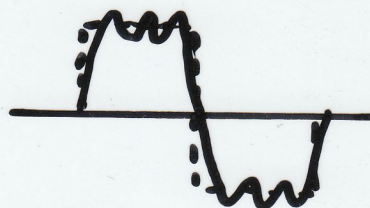
$\sin \omega t \rightarrow$



$\sin \omega t + \frac{1}{3} \sin(3\omega t) \rightarrow$

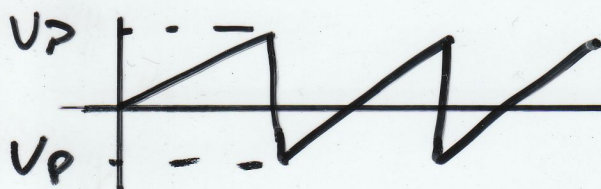


$\sin \omega t + \frac{1}{3} \sin(3\omega t) + \frac{1}{5} \sin(5\omega t)$



etc. etc.

EJ: DIENTE DE SIERRA



$$N(t) = \frac{2V_p}{\pi} \left(\sin \omega t - \frac{1}{2} \sin(2\omega t) + \frac{1}{3} \sin(3\omega t) + \dots \right)$$

FILTRO: CASO MAS SIMPLE: UN CIRCUITO RESONANTE CON Q DETERMINADO.