EXAMEN PARCIAL NOVIEMBRE 2017

Epraiaio 1

2En3 =
$$\delta$$
En-13 + $\frac{1}{2}$ $e^{i\frac{\pi}{3}n}$

a) Polencia y mersia. Periodo $\frac{2n}{n/3} \Rightarrow 6 = N$

a) Polencia y energía.

$$\frac{2n}{n/3} \Rightarrow 6 = N$$

1 e jun periódica = D [E= 0] Esta definida a Pobres

Potoraia:
$$P_{m} = \frac{1}{6} \frac{6}{6} \left| \frac{1}{2} e^{\frac{1}{3} n} \right|^{2} = \frac{1}{6} \frac{6}{6} \left| \frac{1}{2} \right|^{2} = \frac{1}{6} \cdot 6 \cdot \frac{1}{4} = \frac{1}{4}$$

- b) No os periódica, porque la della m on periódica

TF
$$3\delta(n-1)$$
 $- n \cdot 1 \cdot e^{-j\Omega}$

TF $3\delta(n-1)$ $- n \cdot 1 \cdot e^{-j\Omega}$

TF $3\frac{1}{2}e^{i\frac{3}{3}n^2}$ $- n \cdot \frac{1}{2}2n \cdot \delta(\Omega - \frac{n}{3})$ $\frac{1}{2}e^{i\frac{3}{3}n^2}$ $\frac{1}{2}e^{i\frac{3}{3}n^2}$

En trempo no hay simetria

LES En frec no hay sirelia.

Ejerciais 2

$$\frac{hth}{a} = \frac{2}{a}$$

cte si anuswanns en todo; les jubs queck 3-a

b)
$$TFhtns? = 38tas - a stn-2)$$

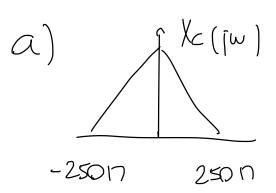
$$\int M(e^{in}) = 3$$

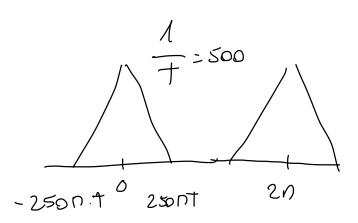
$$-\alpha e^{-i2\alpha}$$

$$3-\alpha e^{-j2n}\Big|_{n=0} = 0 = 3-\alpha = 0 = 0$$

$$3-\alpha e^{-j2n}\Big|_{n=n}=0 \Rightarrow 3-\alpha e^{-j2n}\Big|_{n=0}=0 \Rightarrow 3-\alpha=0$$

Ejerciaio 3





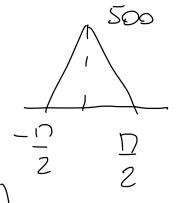
$$\frac{\sqrt{500}}{2} = \frac{\sqrt{1000}}{2} = \frac{\sqrt{1000}}{2}$$

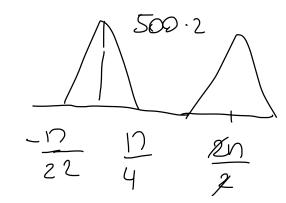
$$\frac{2590 \cdot 2}{1000} = \frac{0}{2}$$

Perisdiaa 2n

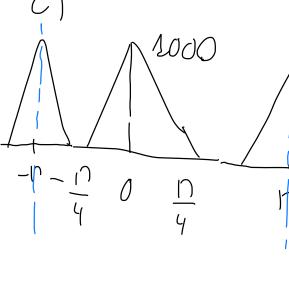
Nygnist V

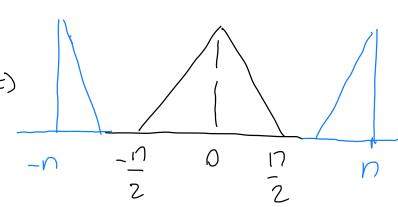
b) Tankspoler y weltylore pr. Sos la applited.





Periódica M.





Theople

 $\frac{1000 \times 2}{2 - 6} \frac{1}{200} = \frac{1}{2} \frac{1}{200} = \frac{1}{200} = \frac{1}{200} = \frac{1}{200} = \frac{1}{200} = \frac{1}{200} = \frac{1}{2000} = \frac{1}{2000$

<u>L</u>=16

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