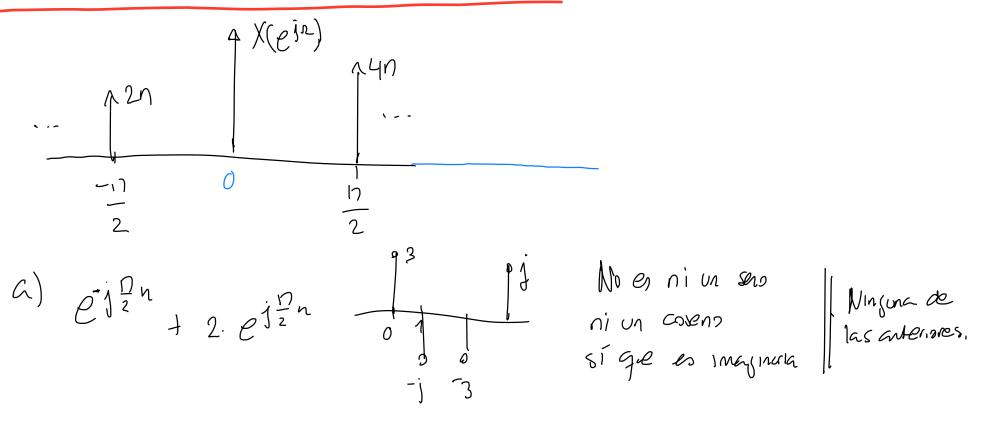
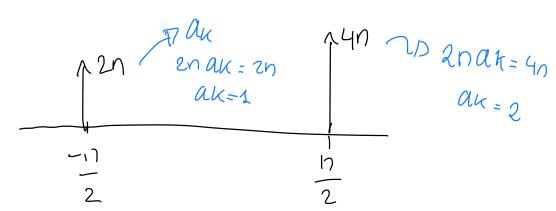
EXAMEN FINAL ASS DICLEMBRE 2018



b)
$$\mathcal{K}(e^{i\alpha}) = 2n \delta(-\frac{n}{2}) + 4n \delta(-\frac{n}{2})$$



1 2 X/2)2 = 5//

$$\left(2e^{i\frac{n}{2}n} + e^{-i\frac{n}{2}n} \right) * \left(\int tn \right) - \int tn - 3j \right) = ytn s = Xtn s * h(n)$$

$$2e^{i\frac{n}{2}n} + e^{-i\frac{n}{2}n} - 2e^{i\frac{n}{2}(n-3)} - e^{-i\frac{n}{2}(n-3)}$$

$$4e^{i\frac{n}{2}n} + e^{-i\frac{n}{2}n} - 2e^{i\frac{n}{2}(n-3)} - e^{-i\frac{n}{2}(n-3)}$$

$$4e^{i\frac{n}{2}n} + e^{-i\frac{n}{2}n} - 2e^{i\frac{n}{2}(n-3)} + 2n \int tn + \frac{n}{2} - 2e^{in} \int t$$

$$\partial)\chi (n)$$

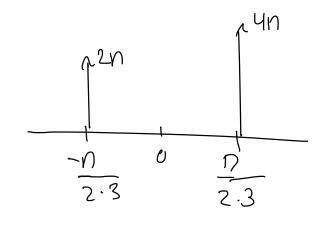
$$W(n) = \chi(Dn)$$

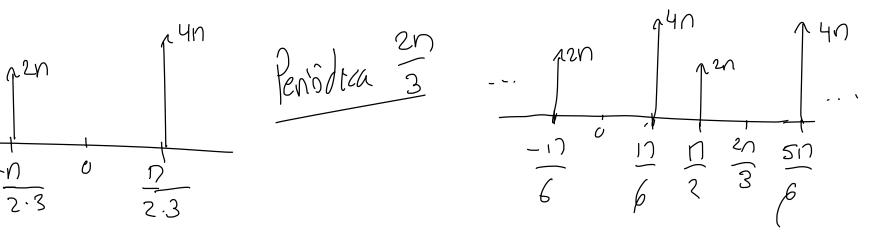
$$\begin{array}{c|c}
1 & 1 & 1 & 1 \\
-1 & 0 & \frac{17}{2} & \frac{17}{2}$$

$$\frac{120}{-\frac{17}{2}.0} = \frac{17}{2}0$$
 $\frac{17}{2}0$ $\frac{20}{2}$

$$\frac{\int_{2}^{2} D \langle D \rangle D \langle \frac{2\pi}{3} | D \langle \frac{2\pi}{2} |$$

e)
$$2tn = \chi \left[\frac{n}{3}\right]$$





Ejerciais 2

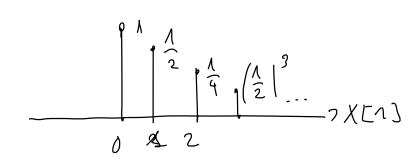
$$\frac{80000}{64} = 4250$$
; $T = \frac{1}{1250} = 8.10^{-4}$

b)
$$K = \frac{1 c N}{f s} = \frac{10 k \cdot 64}{80 k} = 8 / \frac{K = 8}{[K = 64 - 8]}$$

Ejeração 3

$$Xtn S = \left(\frac{1}{2}\right)^n utn$$
 $t \in X(e^{2})$

La OFT de fol putas annoide on el wester, de X(eir)



$$N=0 \qquad \sum_{k=0}^{\infty} \left(\frac{1}{2}\right)^{10N} = \left(\frac{1}{100}\right)^{10N} \qquad \frac{1-0}{1000} = \frac{1}{1000} = \frac{1}{1000} = \frac{1}{1000} = \frac{1}{10000} = \frac{1}{100000} = \frac{1}{10000} = \frac{1}{100000} = \frac{1}{10000} = \frac{1}{100000} = \frac{1}{10000} = \frac{1}{100000} = \frac{1}{10000} = \frac{1}{100000} = \frac{1}{10000} = \frac{1}{10$$

$$N = \sum_{n=0}^{\infty} \left(\frac{1}{2}\right)^{n+1} = \left(\frac{1}{2}\right) \left(\frac{1}{2024}\right)^{n} = \frac{1}{2}$$

$$N = \sum_{n=0}^{\infty} \left(\frac{1}{2}\right)^{n+2} = \left(\frac{1}{2}\right)^{n+2} = \frac{1}{2}$$

$$\left(\frac{1}{2}\right)^{n+2} = \left(\frac{1}{2}\right)^{n+2} = \frac{1}{2}$$

$$N = \frac{2}{n=0} \left(\frac{1}{2}\right)^{\frac{10}{2}n+3}$$

$$gtn = -0,8 gtn - 1) + xcn$$

a) Finaion de transferoria.

$$\frac{1}{1} = -0.8 \frac{1}{1} = \frac{1}{1} + \frac{1}{1} = \frac{1}{1} =$$

- b) Régión de anergacia, polho, ceros...
 - · No tiene ceros

$$4 + \frac{00}{2} = 0 = 0$$

C) Respuerta al implliso:

$$\frac{\Lambda}{1+0.82^{-3}} = (-0.8)^n \text{ utn}$$
 sec a deches

Schems gre

$$(0,8)^{h}$$
 men $5 = \frac{1}{1-0,8} = \frac{1}{2}$

d) Diagramer de bliques del sistema.

e) H(ein) a pater de la fraion de (unsparaire. Détermine | H(eir))

$$H(e^{i\alpha}) = \frac{1}{1+0.3e^{-i\alpha}}$$
 = D fromae de $H(z)|_{z=c^{\frac{1}{2}}}$

$$||H(e^{12})||_{e=n} = \frac{1}{1+0.8e^{-1}} = \frac{1}{1-0.0} = 5//$$

$$||H(e^{10})||_{e=n} = \frac{1}{1+0.8e^{-1}} = \frac{1}{1-0.0} = 5//$$

$$||(e^{in})||_{\Omega=0}$$
 $= 0$ $= 0,55$

 $\begin{array}{lll}
3) & yth = 0,8 & yth-1) + xth \\
y(2)(1-0,82^{-1}) &= x(4) & y(4) & y(4) &= \frac{x(4)}{x(4)} &= \frac{1}{1-0,82^{-1}}
\end{array}$

$$H(2)|_{z=e^{j2}} = \frac{1}{1-0.8e^{-j2}}$$
 Con $s_2=7 \Rightarrow \frac{1}{1+0.8} = 50.55$
 $s_1-0.8e^{-j2}$ Con $s_2=0 \Rightarrow \frac{1}{1-0.8} = 5$

Seria un filtro paro bajo

