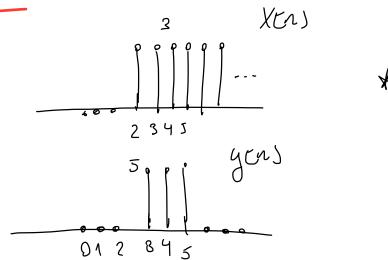
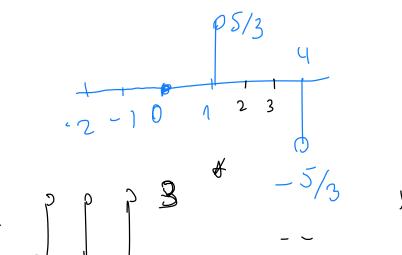
EXAMEN FINAL ASS Junto 2017

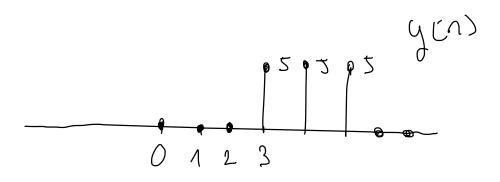
Ejercicio 1

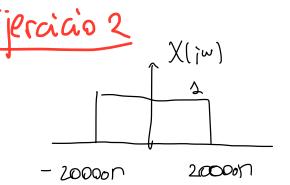




-4-3-2-101

hins

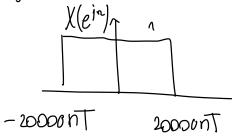




$$J(x) = 3 + x + 0.5x^{2} + 0.1x^{3}$$

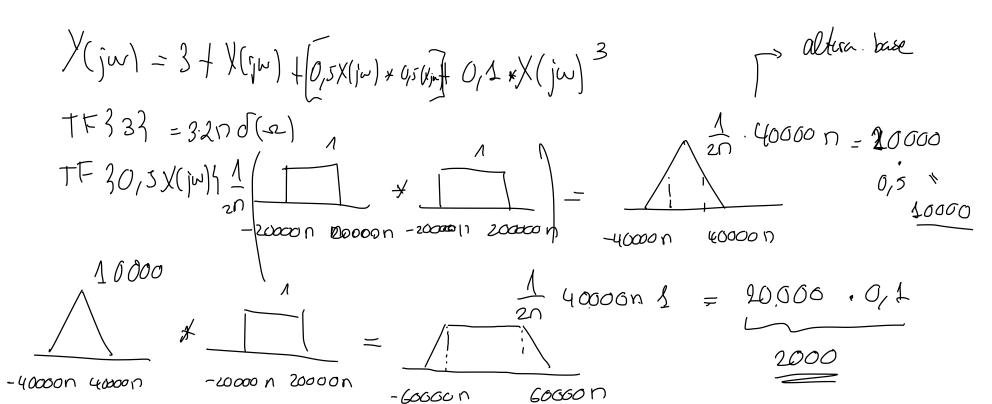
$$g(k) = 3 + x(k) + 0.5x(k)^{2} + 0.1x(k)^{3}$$

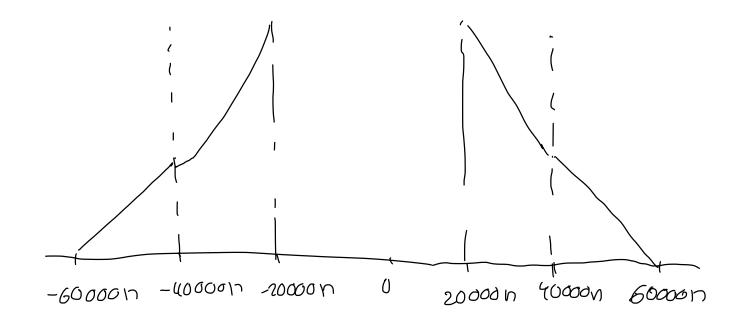
a) feriodo máximo de muentes.



-b siguierle réplier a en

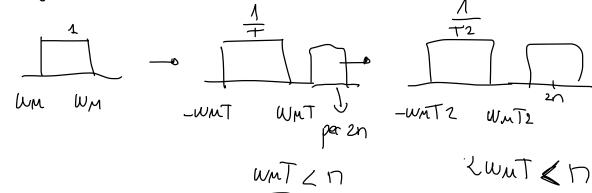
$$y(i) = 3x(i) + 0,5x(i)^{2} + 0,1x(i)^{3}$$





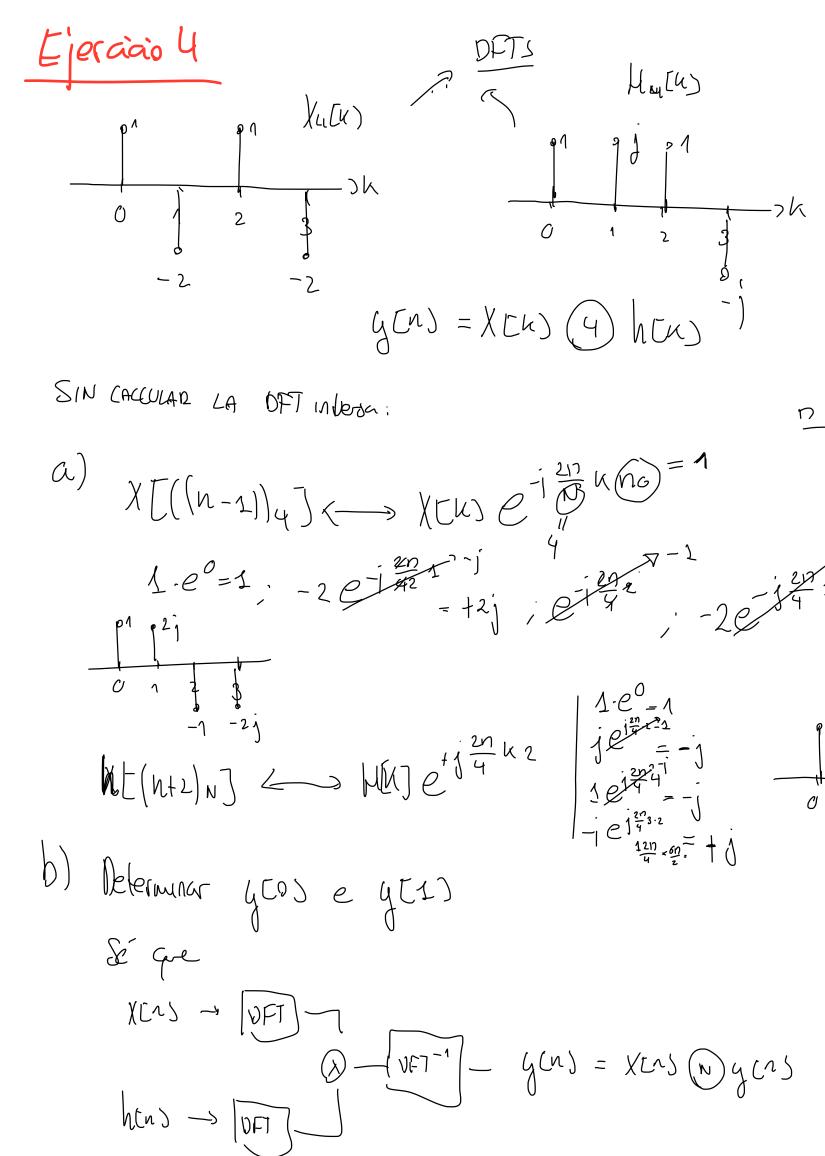
Ejeracio 3

a)
$$\chi(T_t) = \chi(T_t)$$
 — we we have $\chi(T_t) = \chi(T_t) \rightarrow \Omega(T_t)$ DIE2 mar.

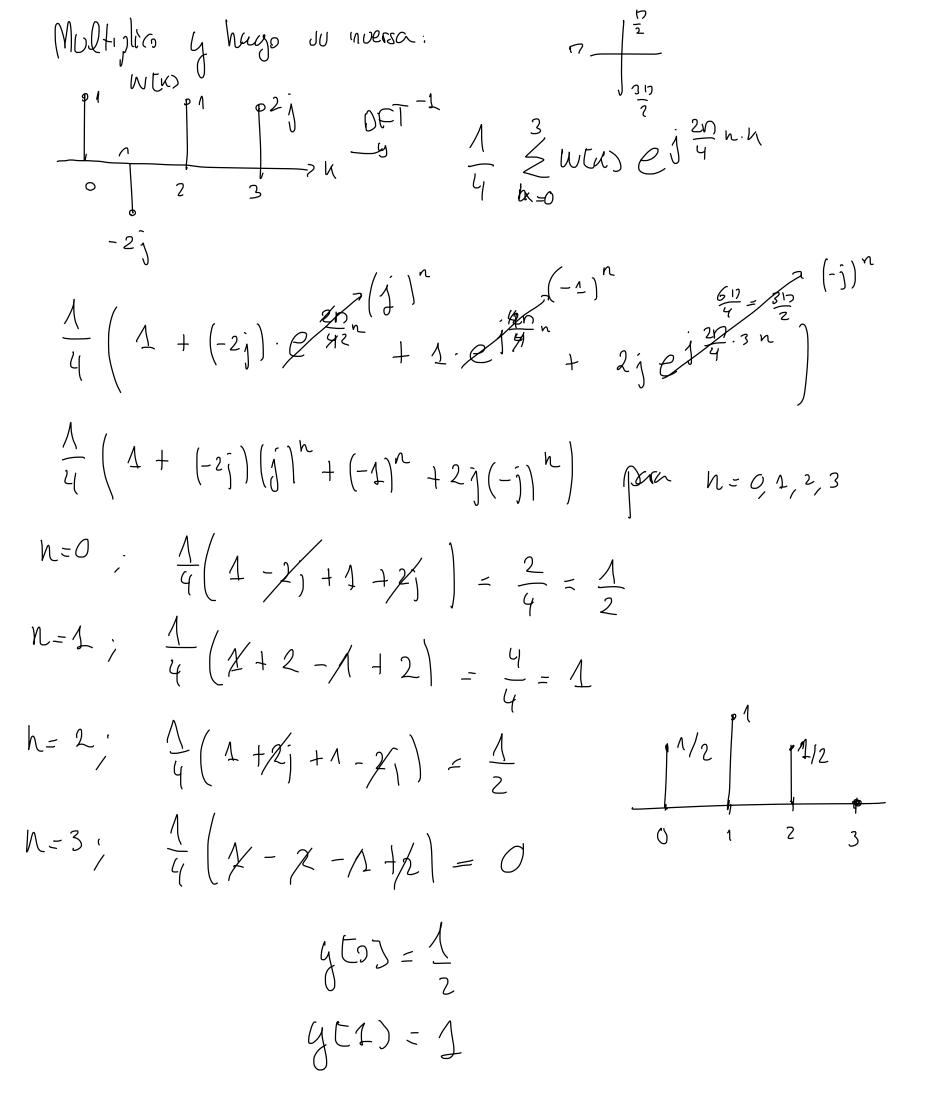


Courin I:
$$y(n) = x(2n)$$
; $x(n) = x(Tt)$

$$y(n) = x(2Tt)$$
Cours I $y(n) = x(2Tt)$
Cours I $y(n) = x(2Tt)$



2n



E'jera'a's 5

$$F_{A}: \chi_{CD} - 2\chi_{CD} - 1 + \frac{3}{4}\chi_{CD} - 2 = \chi_{CD} - \frac{1}{9}\chi_{CD} - 2$$

$$\chi(2) \left(1 - 2\xi^{4} + \frac{3}{4}\xi^{2}\right) = \chi(2) \left(1 - \frac{1}{4}\xi^{2}\right)$$

$$H_{A}(2) = \frac{\chi(2)}{\chi(2)} = \frac{1 - 2\tau^{4} + 3\chi_{E}^{2}}{1 - \frac{4}{3}\xi^{2}}$$

$$F_{2}: \chi_{CD} + \frac{1}{2}\chi_{CD} - 2 = \chi_{CD} - \frac{1}{3}\chi_{CD} - 1$$

$$\chi(2) \left(1 + \frac{1}{4}\xi^{4}\right) = \chi(2) \left(1 - \frac{1}{3}\xi^{-4}\right)$$

$$H_{2}(2) = \frac{\chi(2)}{\chi(2)} = \frac{1 + \frac{1}{4}\xi^{-1}}{1 - \frac{1}{4}\xi^{-2}}$$

$$G(2) = H_{A}(2) + I_{2}(2) = \frac{1 - 2\xi^{4} + 3I_{4}\xi^{-2}}{1 - \frac{4}{9}\xi^{-2}} \cdot \frac{1 + \frac{1}{4}\xi^{-1}}{1 - \frac{4}{3}\xi^{-1}} = \frac{1 - 2\xi^{4} + 3I_{4}\xi^{-2}}{1 - \frac{4}{9}\xi^{-2}} \cdot \frac{1 + \frac{1}{4}\xi^{-1}}{1 - \frac{4}{9}\xi^{-1}} = \frac{1 - 2\xi^{4} + \frac{1}{4}\chi^{2}}{1 - \frac{4}{9}\xi^{-1}} = \frac{1 - \frac{4}{3}\xi^{4}}{1 - \frac{4}{9}\xi^{-2}} \cdot \frac{1 + \frac{3}{4}\xi^{-2}}{1 - \frac{4}{9}\xi^{-2}} = \frac{1 - \frac{4}{3}\xi^{4}}{1 - \frac{4}{9}\xi^{-2}} \cdot \frac{1 + \frac{3}{4}\xi^{-2}}{1 - \frac{4}{9}\xi^{-2}} = \frac{1 - \frac{4}{3}\xi^{4}}{1 - \frac{4}{9}\xi^{-2}} \cdot \frac{1 + \frac{3}{4}\xi^{-2}}{1 - \frac{4}{9}\xi^{-2}} = \frac{1 - \frac{4}{3}\xi^{-4}}{1 - \frac{4}{9}\xi^{-2}} \cdot \frac{1 + \frac{4}{9}\xi^{-2}}{1 - \frac{4}{9}\xi^{-2}} = \frac{1 - \frac{4}{9}\xi^{-2}}{1 - \frac{4}$$

$$\frac{1}{\sqrt{12}} - \frac{3}{2} - \frac{1}{\sqrt{1}} = \frac{3}{8}$$

$$-1/2, \frac{1}{2}, \frac{3}{2}$$

Ejerciais 6

a) Ruo bajo, deja prox frecuencios en torno a O. b) No es breal, admás, el reterdo de grupo indra dispresión a la gare

C)