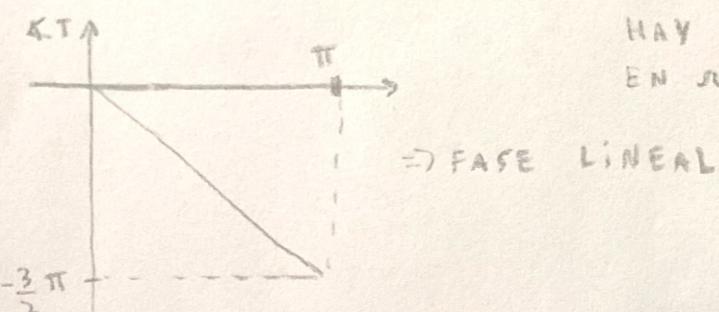
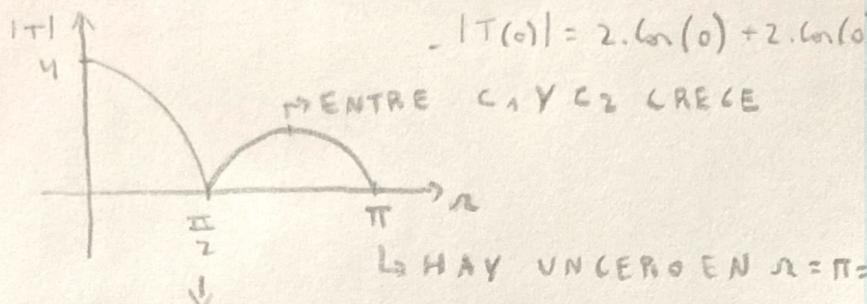
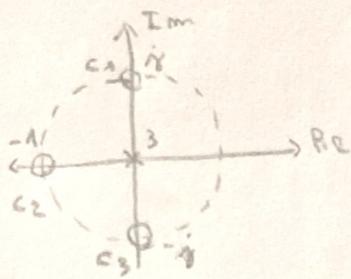


$$A - T(j\omega) = e^{-\frac{3}{2}j\omega} \left(2 \cos\left(\frac{3}{2}\omega\right) + 2 \cos\left(\frac{1}{2}\omega\right) \right)$$

$\times T = -\frac{3}{2}\omega$ $|T| = 2 \cdot \cos\left(\frac{3}{2}\omega\right) + 2 \cos\left(\frac{1}{2}\omega\right)$

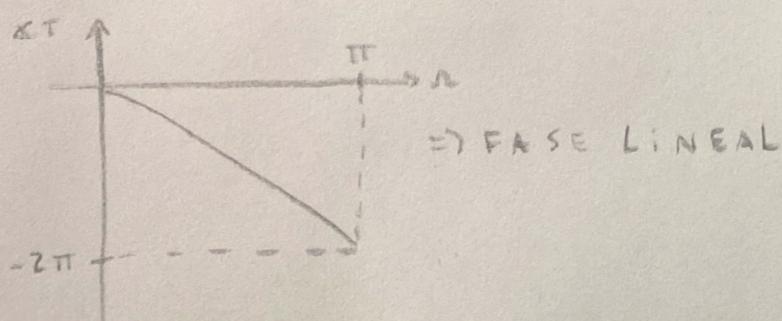
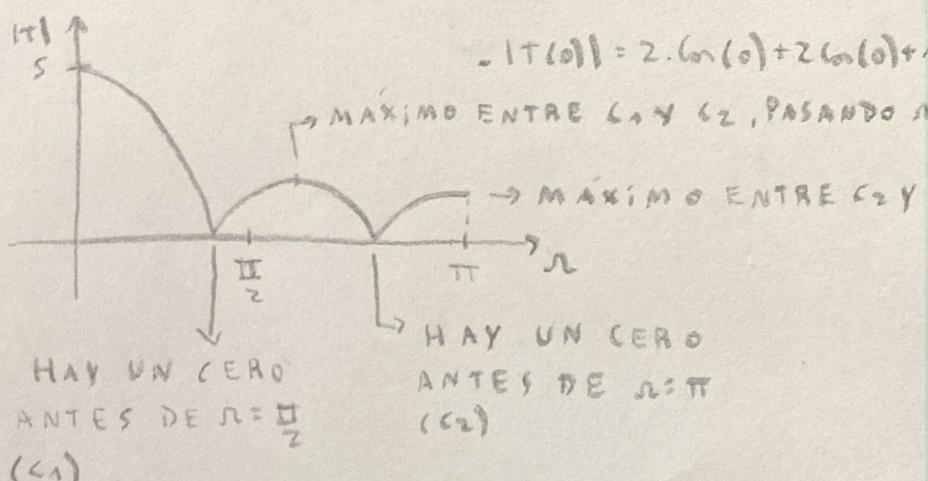
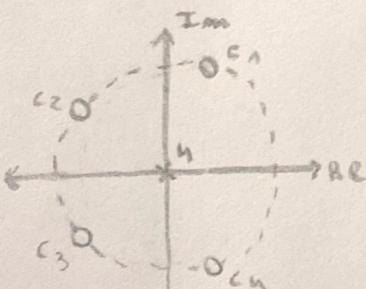


HAY UN CERO
EN $\omega = \frac{\pi}{2} \Rightarrow c_1$

\Rightarrow FASE LINEAL

$$B - T(j\omega) = e^{-2j\omega} \left(2 \cos(2\omega) + 2 \cos(\omega) + 1 \right)$$

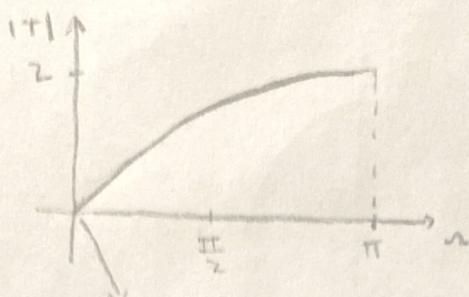
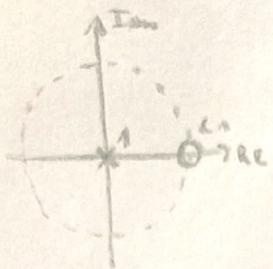
$\times T = -2\omega$ $|T| = 2 \cdot \cos(2\omega) + 2 \cos(\omega) + 1$



\Rightarrow FASE LINEAL

$$6. \quad T(i\pi) = e^{-\frac{1}{2}\pi i} \cdot 2i \sin(\frac{1}{2}\pi)$$

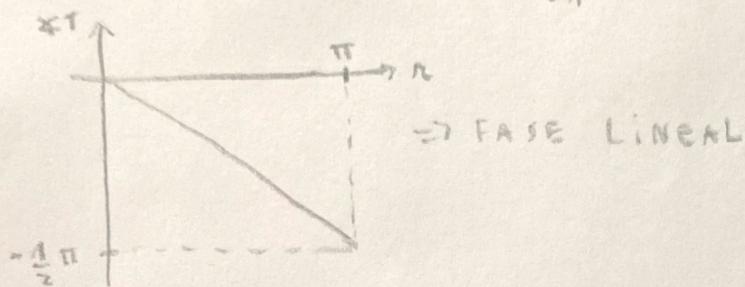
$$\Im T = -\frac{1}{2}\pi \quad |T| = 2 \sin(\frac{1}{2}\pi)$$



$$-|T(0)| = 2 \sin(0) = 0$$

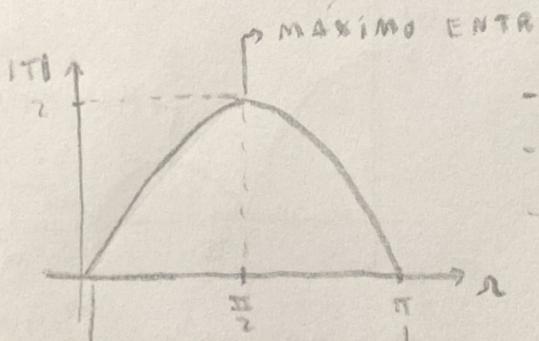
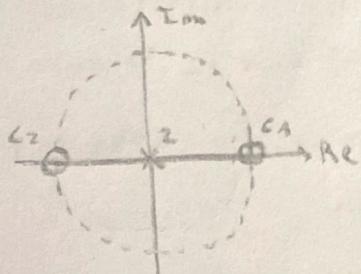
$$-|T(\pi)| = 2 \sin(\frac{1}{2}\pi) = 2$$

ARRANCA EN "0"
POR EL ÚNICO
CERO "C₁"



$$D. \quad T(i\pi) = e^{-i\pi} \cdot 2i \sin(\pi)$$

$$\Im T = -\pi \quad |T| = 2 \sin(\pi)$$



MAXIMO ENTRE C₁ Y C₂

$$-|T(0)| = 2 \sin(0) = 0$$

$$-|T(\frac{\pi}{2})| = 2 \sin(\frac{\pi}{2}) = 2$$

$$-|T(\pi)| = 2 \sin(\pi) = 0$$

HAY UN CERO
EN $\theta = 0 \Rightarrow C_1$

HAY UN CERO
EN $\theta = \pi \Rightarrow C_2$

