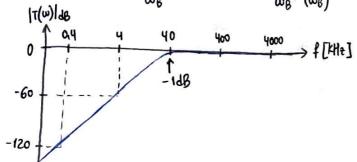


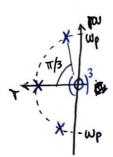
BW. N=3:
$$T(\$) = \frac{1}{\$+1} \cdot \frac{1}{\$^2 + \$ \cdot 2009 \left(\frac{\pi}{3}\right) + 1}$$
 $W_B = 8^{-1/N} = 1.2526$

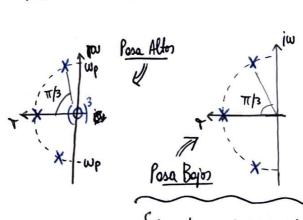
$$\rightarrow$$
 Volviendo a M.P. $T(\$) = \frac{\omega_B}{\$+\omega_B} \cdot \frac{\omega_B^2}{\$^2 + \$ \cdot 2 \cos(\pi) \cdot \omega_B + \omega_B^2}$

$$\frac{\text{H.P:}}{\$ = 1/S} \Rightarrow T(s) = \frac{\omega_B}{\left(\frac{1}{s}\right) + \omega_B}, \frac{\omega_B^2}{\left(\frac{1}{s}\right)^2 + \left(\frac{1}{s}\right) \cdot 2\cos\left(\frac{\pi}{3}\right) \cdot \omega_B + \omega_B^2} = \frac{S}{S + \frac{1}{\omega_B}} \cdot \frac{S^2 + S \cdot \frac{2\cos\left(\frac{\pi}{3}\right)}{\omega_B} + \left(\frac{1}{\omega_B}\right)^2}{\frac{1}{\omega_B}}$$

$$T(s) = \frac{s}{s + \frac{\omega_{f}}{\omega_{6}}} \cdot \frac{s^{2}}{s^{2} + s \cdot 2\cos(\pi/3) \cdot \frac{\omega_{f}}{\omega_{6}} + (\frac{\omega_{f}}{\omega_{6}})^{2}} = \frac{s}{s + 200,644 \cdot 10^{3}} \cdot \frac{s^{2}}{s^{2} + s \cdot 200,644 \cdot 10^{3} + 40,259 \cdot 10^{9}}$$







$$\int \frac{R}{L} = \frac{1}{\omega_B} \Rightarrow R=1; L= \omega_B$$

$$\omega_B^2 = LC \Rightarrow C = \omega_B$$

$$T(s) = \frac{R}{R + 1/SC} = \frac{S}{S + 1/RC} = \frac{S}{S + 1/WB} \rightarrow \left\{ W_B = RC \Rightarrow R = 1; C = W_B \right\}$$

