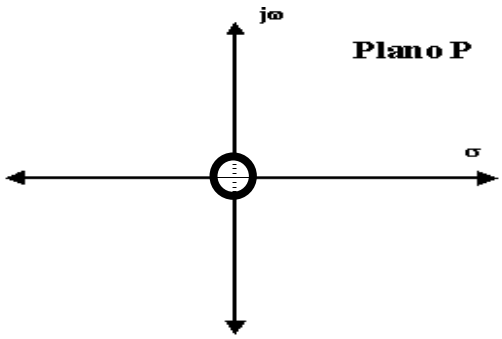
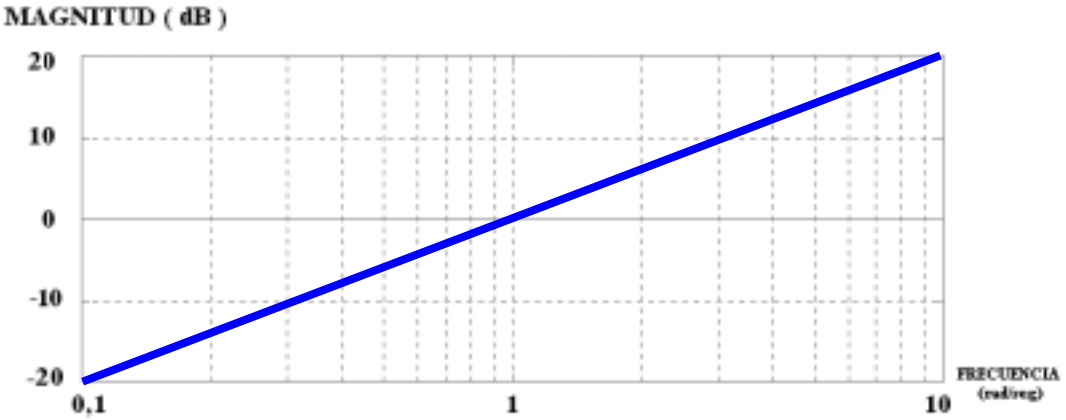
CERO AL ORIGEN

$F_{(P)} = P \rightarrow F_{(j\omega)} = j\omega$



MÓDULO $|M| = 20 \text{ Log } (\omega)$

$\omega = 100 \rightarrow |M| = 20 \text{ Log } (100) = +40 \text{ dB}$
$\omega = 10 \rightarrow |M| = 20 \text{ Log } (10) = +20 \text{ dB}$
$\omega = 1 \rightarrow |M| = 20 \text{ Log } (1) = 0 \text{ dB}$
$\omega = 0.1 \rightarrow |M| = 20 \text{ Log } (0.1) = -20 \text{ dB}$
$\omega = 0.01 \rightarrow |M| = 20 \text{ Log } (0.01) = -40 \text{ dB}$



FASE $\varphi = tg^{-1} \text{ Im / Re}$

$\omega = 100 \rightarrow \varphi = tg^{-1} 100/0 = +90°$
$\omega = 10 \rightarrow \varphi = tg^{-1} 10 / 0 = +90°$
$\omega = 1 \rightarrow \varphi = tg^{-1} 1 / 0 = +90°$
$\omega = 0.1 \rightarrow \varphi = tg^{-1} 0.1 / 0 = +90°$
$\omega = 0.01 \rightarrow \varphi = tg^{-1} 0.01 / 0 = +90°$