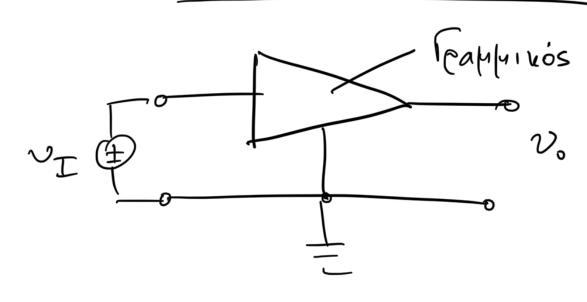
## Madapa 1/12/21

## Anougien 60×vo TyTas



$$v_{I} = V_{I} S_{i} w t$$

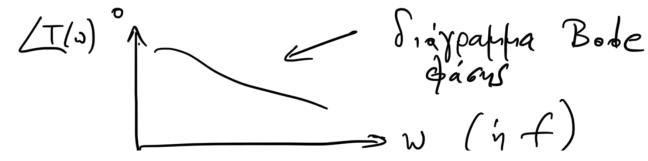
$$v_{O} = V_{o} S_{i} (w t + \phi)$$

$$|T(w)| = \frac{V_{o}}{V_{I}}$$

$$|T(\omega)| = \phi$$

1 (ω) -) fizadini Gurajemon fizadopos 20 logio (IT(ω)) Do de Toos 1 λογαριθημικό η λίταμα

20 logio (ITW)I) -> dB ->
asiacrary Trocotyra



- Scalar Network Analyzer VH = T - >1 (Siagr. Bode) 7=1 T=1 Spectrum Analyzer (tacta) Mn geappines Uz= Visinut voq W 2w 3wMoir of the size

 $\leftarrow v_c \rightarrow$ : votos Ohm Trosio t ohm Trosio + S -> frigations fretabling org Jeveni medi macin: S = 6+jw -> Laplace Eldius TreplATWGu ? S - pavra671 un fcrabdurý fourier



## Diappahyara Bode 11) à roos

S=-a S,a E PR Exu cro -a pija Tou Troduvijou Tou Traporofiacty.

Deologia: or eiges tos trolouvitos

Tos trapovotra 67 fras 60 valoruscus

treta dopais ovotrajorzar trolor K

60 frodijoszar 40 X

Autignoixa, or piscs mod. aprofuntés ovotrajourai fuservius

Evilus  $\pi c \rho i m c \omega :$   $H(s) = (S+P_1)(s+P_2) - \cdots (s+P_m)$ 

 $(S+a_1)(S+a_2) \cdot - (S+a_n)$ 

(

(0,0) 6 cninc60 -s

Zurajian Buliatur milloms paffinder Kummhatur 600 Telio Tus Goxvorntas:

(1) Enilog too rowlingtates coo Tedio 5 (papping availors)

(2) Edgery H(s) BE MapajorTILYS

(3) Authoracy S=JJ

(4) Tonodéryon now / fruderimer cro

(3) Xápazn Frappahlitur Bobe

Thapádeigha pia 20 (5)

For  $H(s) = \frac{1}{s+\alpha}$ He are R apr  $-\alpha$ : pija

Enincão - s

 $-\alpha$  (0,0)

 $H(j\omega) = \frac{1}{i\omega + \alpha}$ 

$$\frac{\int |H(j\omega)| = \frac{1}{|j\omega + a|}}{|j\omega + a|}$$

anczaptury parabluty:

$$W = 0 \rightarrow \infty$$

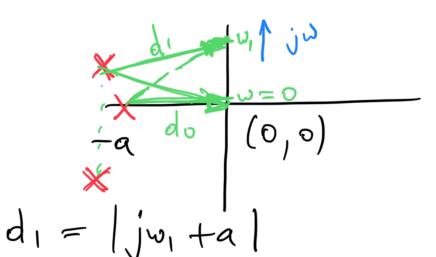
$$(0,0)$$

$$(1,0)$$

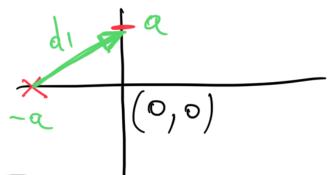
$$(0,0)$$

$$(1,0)$$

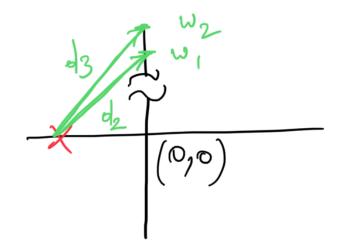
(1) 
$$w = 0 \rightarrow |jw+a| = |a| = d_0$$



$$(2)$$
  $w = a$ 



(3)  $E_{GT\omega}$   $w_1 >> \alpha$   $y_2$   $f_{1}\alpha J_{0}^{2}\gamma_{0}$   $v_{\alpha 1}$   $f_{1}\alpha J_{0}^{2}\gamma_{0}$   $v_{\alpha 1}$   $f_{1}\alpha J_{0}^{2}\gamma_{0}$   $g_{1}\omega_{0}$   $g_{2}\omega_{0}$ 

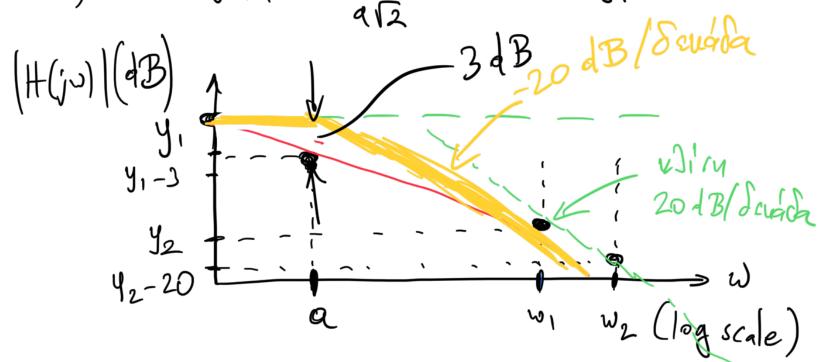


Yno Gueri ulipaua:

 $d_2 \simeq \omega_1$   $d_3 \simeq \omega_2 = 10\omega_1$ 

(1) 
$$|H(jo)| = \frac{1}{a} 6 \epsilon dB : 20 \log_{10} \frac{1}{a} = y_1 d\epsilon$$

(2) 
$$|H(ja)| = \frac{1}{a\sqrt{2}} 6c dB : y_1 - 3 dB$$



 $\frac{10^{-1}10^{-1}}{10^{-1}} \frac{1}{10} \frac{1}{100} \frac{1}{100$ 

Fulling Trepingues;

No fundaviria (zeroes) - Z

M no Joi (poles) - P  $\frac{1}{2}$   $\frac{1}{2}$ 

