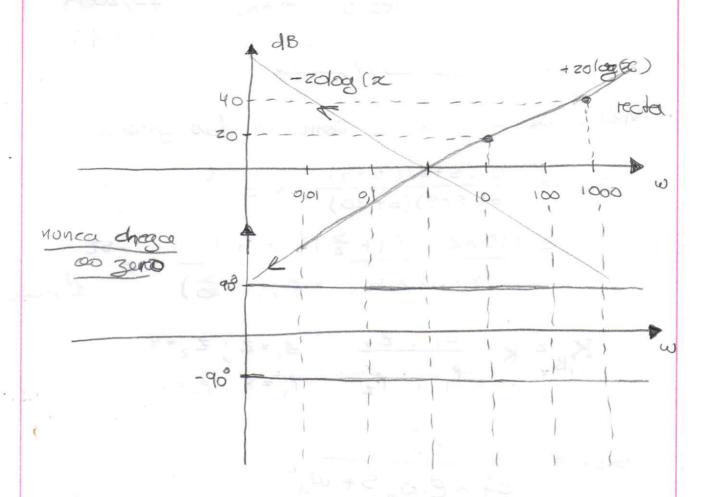
tesis teorice. 28/5/2009 20: 40 Analise de sistema no Dominio das frequencias $G(6) = \frac{10(s+2)(s+4)}{s(s+20)} = -st$ = $\frac{10 \times 2 \times 4 \left(1 + \frac{5}{2}\right) \left(1 + \frac{5}{4}\right)}{8 \times 20 \times 5 \left(1 + \frac{5}{8}\right) \left(1 + \frac{5}{20}\right)} \cdot e^{-5t}$ G(S) = 5+2EW, S+W, G(5) = \(\omega_{\pi}^2 \) 52 + 2 Ewn 5 + wn 2 w2 (w.) + 2 & jwg + 1 1º passo ex) R=1000 zolog10(1000)=60. dB W



$$G(s) = 5$$
 $G(sw) = sw$
 $S = 0.90^{\circ}$
 $G(s) = \frac{1}{5}$
 $G(sw) = \frac{1}{5}$

tesis teoria 2/6/2009 18:10 Diagrama Boud $\frac{1}{(1+\frac{5}{p})} \circ \frac{1}{(1+\frac{1}{p})}$ cessimptotes 1 (1+300) 2 1 w-00 (w (Cp) (q<<w>w-0+00 (w>>p) 1 2 white AdB 20 100 10 -20 Polos em -60 3000 arvam-se 00 0,19 100 1 1+ 2 = = = w 1 2 1 3 2 2 2 90°

Diagramas de Boud

1+28 (iw) + (iw) 2 w << wn } | G(iw) | = 1 - podB $\omega + \rho + \infty$ $\omega >> \omega_{N}$ $\int |G(i\omega)| = \frac{\omega_{N}}{2}$ $|G(i\omega)| = -180^{\circ}$ A 2B 20103 10 Mrl wy 10wy 10wy