

exercício 7

zero em -1 subida.

blo $\omega_{p1} = 2 \text{ rad/s}$

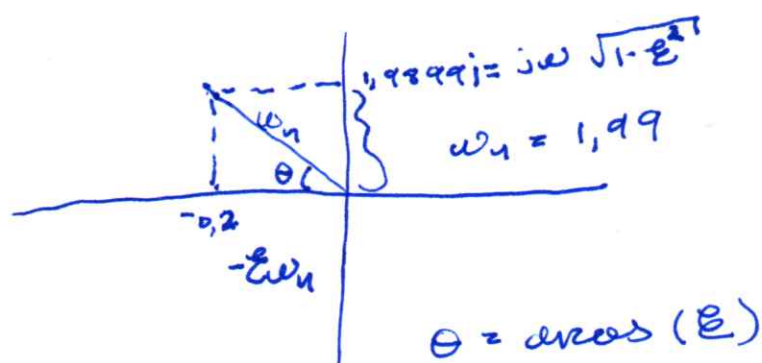
calcular o fator de amortecimento,
horizontal.

$\omega_{p2} = 5 \text{ rad/s}$

$\omega_{p3} = 20 \text{ rad/s}$

$$G(s) = \frac{(s+1)}{(1+\frac{s}{2})(1+\frac{s}{5})(1+\frac{s}{20})}$$

$$= \frac{200(s+1)}{(s+2)(s+5)(s+20)}$$



$$\omega_r = \omega_n \sqrt{1-\xi^2}$$