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$$G_1(z) = z^2 + 5z + 25$$

$$25 \left[1 - \left(\frac{w}{5} \right)^2 + \frac{w}{5} \right]$$

$$z(z^2 + 7,4z + 765z + 320)$$

$$z \cdot z \left(\frac{w}{5} + 1 \right) 64 \left[1 - \left(\frac{w}{8} \right)^2 + 0,075w \right]$$

$$20 \log \left| \frac{5}{64} \right| = -22,14 \text{ dB}$$

$$f_z = \frac{w_m}{25} = 0,5 \Rightarrow w_{n2} = w_m \sqrt{1 - 2\zeta} = 3,5 \text{ rad/s}$$

$$M_{n2} = \frac{1}{2\zeta \sqrt{1 - \zeta^2}} = 1,25 \text{ dB}$$

$w \gg w_m \Rightarrow 50 \text{ dB}$ por década