2.
$$G(s) = \frac{8}{(s+2)(s+4)}$$

2.a)
$$f.T.n.F. = \frac{8}{(5+2)(5+4)} = \frac{8}{(5+2)(5+4$$

$$= \frac{8}{5^2 + 25 + 45 + 8 + 8} = \frac{8}{5^2 + 65 + 16}$$

$$2\ell \omega_m = 6$$
 $\Rightarrow \ell = \frac{6}{2\times 4} = \frac{6}{8} = 0.75$

(<1 > RESPORTA WIS-AMONTECIDA, LOGO APRISANTA OSCITAÇÃO
PANA UNA ENTRADA EN DEGNAS (NESTE CASO, UNITATIOS)

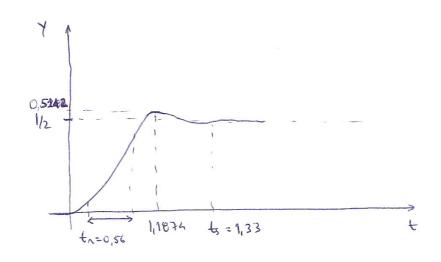
$$t_p = \frac{\pi}{\omega_m \sqrt{1-\tilde{S}^2}} = \frac{\pi}{4 \times \sqrt{1-0.75^2}} = 1.1874 \text{ s}$$

$$y(t_p) = 0.5 + e^{-\frac{9\pi}{\sqrt{1-9^2}}} = 0.5 + e^{-\frac{0.75\pi}{\sqrt{1-0.75^2}}} = 0.5264 \Rightarrow \frac{1.0264}{2} = 0.5142$$

$$t_n = \frac{\theta/t_0 \theta}{\omega_n}$$
, $\theta = ancos(\theta) = ancos(0,75) = 0,7227 $\Rightarrow t_n = 0,5674$$

$$t_3 = \frac{4}{100} = \frac{4}{0.75 \times 4} = 1.333 \text{ s}$$

1) (1



2.5.) function de Thamsfendich en Macha Abenta
$$G(s) = \frac{8}{(5+2)(5+4)}$$

TIPO DESDIENA: Nº DE POUS DA F.T. N.A NA ONIGEN 3 L=0

l=0 > zono en Récorde Pennanciare à Maripa =00