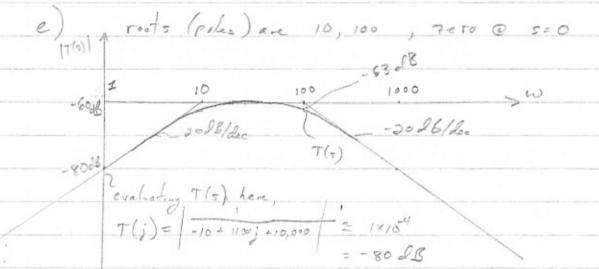
[No units given)

$$\frac{\chi(s)}{F(s)} = \frac{5}{10s^2 + 1100 s + 10000}$$



.

$$\frac{eg}{R}$$
,  $H_1(s) - \frac{eg}{R}$ ,  $H_2(s) = eA_2 = H_2(s)$ 

$$Q_{n:}(s) = \left(\frac{\rho_s}{R_1} + \rho_{A_1}s\right) \left(\frac{R_1}{\rho_g}\right) \left(\frac{\rho_g}{R_2} + \rho_{A_2}s\right) H_2(s)$$

$$\frac{H_2(s)}{Q_{mi}(s)} = \frac{1}{\left(1 + \frac{A_1 s R_1}{e_2}\right) \left(\frac{e_2}{R_2} + e_2 A_3 s\right)}$$

$$\begin{bmatrix} h_1 \\ h_2 \end{bmatrix} = \begin{bmatrix} \frac{-g}{R_1 A_1} & O \\ \frac{-g}{R_1 A_2} & \frac{-g}{R_2 A_2} \end{bmatrix} \begin{bmatrix} h_1 \\ h_2 \end{bmatrix} + \begin{bmatrix} \frac{1}{PA_1} \\ O \end{bmatrix} g_{mi}$$

$$\begin{bmatrix} h_1 \\ h_2 \end{bmatrix} = \begin{bmatrix} 1 & 6 \\ 0 & 1 \\ 0 & \frac{pq}{R_2} \end{bmatrix} \begin{bmatrix} h_1 \\ h_2 \end{bmatrix} + \begin{bmatrix} g_m \\ 1 \end{bmatrix}$$