## NOTA = 25

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Data: 9/3/2021 PI-ELT 330

( Considerando o mareimento vertical, temas; ( Descarsiderando Xc)

Sabre a movimentia de 
$$M_C$$
:

$$\begin{cases}
M_C \frac{d \times c}{dt} + K_s \int_{x_C - x_R}^t dt + B_s(X_C - X_R) = F \\
M_C S^2 + B_S S + K_S X_C + (-B_S - K_S) X_R = F - F = 0
\end{cases}$$
(MCS<sup>2</sup> + B<sub>S</sub> S + K<sub>S</sub>)  $X_C + (-B_S - K_S) X_R = F - F = 0$ 

Sabre a marimento de Mr.:

$$\begin{cases} M_{n} \frac{dX_{n}}{dt} + B_{s} (X_{n} - X_{c}) + K_{n} \int_{0}^{t} (X_{n} - X_{c}) dt + K_{s} \int_{0}^{t} (X_{n} - X_{c}) dt$$

a) 
$$\Delta_1 = 102000[-11452 - 8090]_{Xe}$$

$$\Delta = 7 FT = Xc = 102000[-11452 - 8090]_{Xe}$$

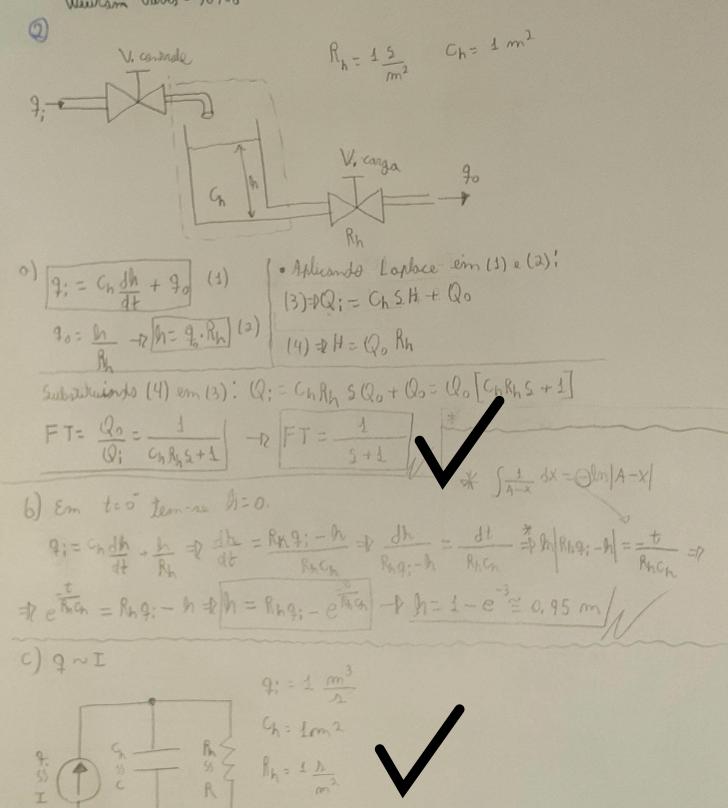
$$\Delta = \frac{102000[-11452 - 8090]_{Xe}}{\Delta e}$$

$$b = \frac{\Delta_2}{\Delta} = \frac{102000 \text{ Xe} \left(2535^2 + 11455 + 8090\right)}{\text{dot } A}$$

$$= 77 \text{ Ft} = \frac{X\pi}{2} = \frac{102000 \left(2535^2 + 11455 + 8090\right)}{\text{Xe}}$$

$$= \frac{102000 \left(2535^2 + 11455 + 8090\right)}{\text{Add } A}$$

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