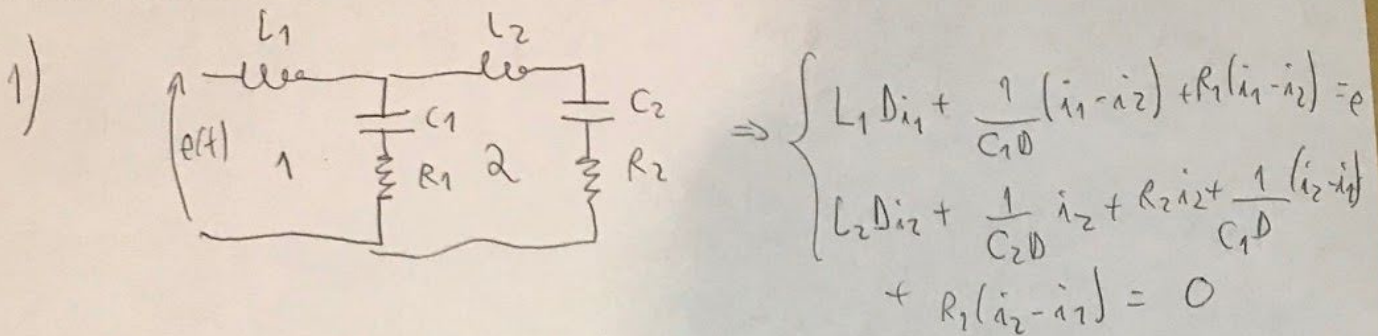
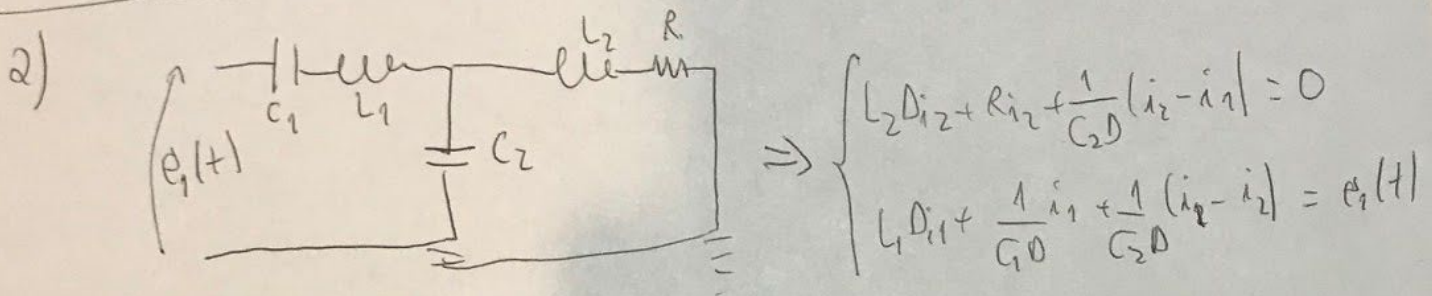


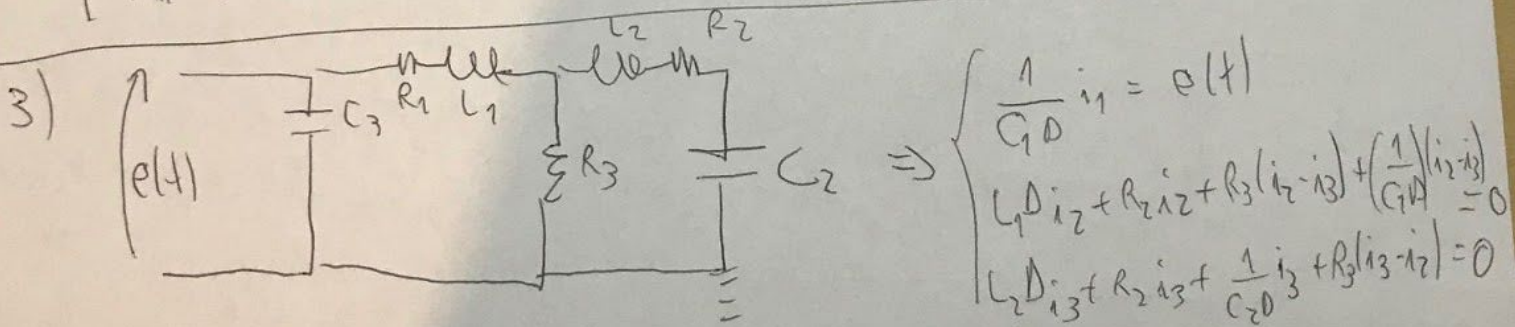
NATHAN DALEFFI RODRIGUES RAYES 10772585



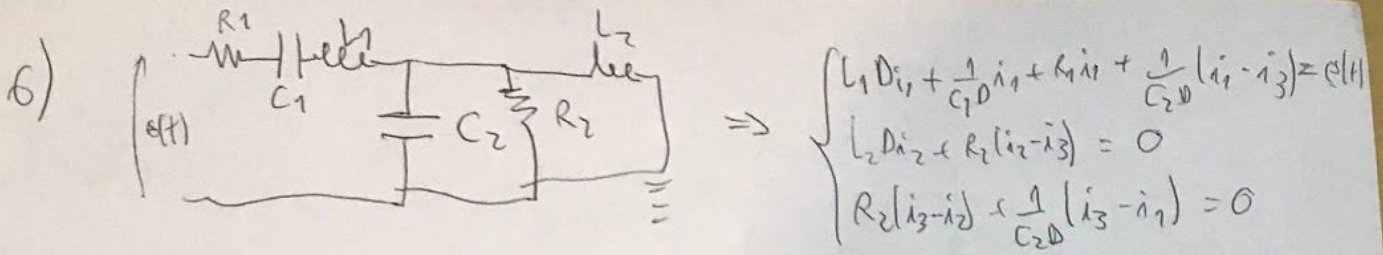
$$\Rightarrow \begin{cases} m_2 \ddot{x}_2 + K_2(x_2 - x_1) + b_2(\dot{x}_2 - \dot{x}_1) = f(t) \\ m_1 \ddot{x}_1 + K_1 x_1 + b_1 \dot{x}_1 + k_2(x_1 - x_2) + b_2(\dot{x}_1 - \dot{x}_2) = 0 \end{cases}$$



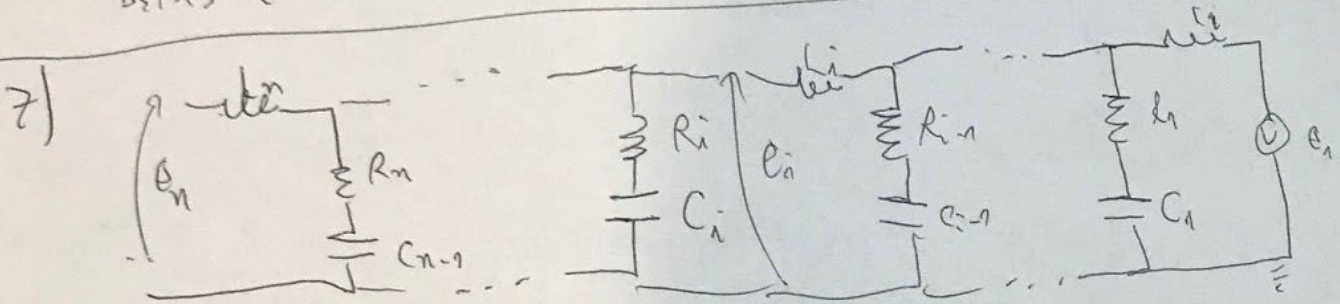
$$\Rightarrow \begin{cases} m_2 \ddot{x}_2 + b \dot{x}_2 + K_2(x_2 - x_1) = 0 \\ m_1 \ddot{x}_1 + K_1 x_1 + K_2(x_1 - x_2) = f_1(t) \end{cases}$$



$$\Rightarrow \begin{cases} T = K_1 \theta_1 \\ J_1 \ddot{\theta}_2 + B_1 \dot{\theta}_2 + B_3(\theta_2 - \theta_3) + K_1(\theta_2 - \theta_1) = 0 \\ J_2 \ddot{\theta}_3 + B_2 \dot{\theta}_3 + B_3(\theta_3 - \theta_2) + K_2 \theta_3 = 0 \end{cases}$$



$$\Rightarrow \begin{cases} m_1 \ddot{x}_1 + k_1 x_1 + b_1 \dot{x}_1 + k_2 (x_1 - x_2) = f(t) \\ m_2 \ddot{x}_2 + b_2 (\dot{x}_2 - \dot{x}_1) = 0 \\ b_2 (\dot{x}_1 - \dot{x}_2) + k_2 (x_1 - x_2) = 0 \end{cases}$$



VAGÃO 1:

$$m_1 \ddot{x}_1 + b_1 \dot{x}_1 + k_1 x_1 - b_1 \dot{x}_2 - k_1 x_2 = f(t)$$

VAGÃO n

$$m_n \ddot{x}_n + b_{n-1} \dot{x}_n + k_{n-1} x_n - b_{n-1} \dot{x}_{n-1} - k_{n-1} x_{n-1} = f_n(t)$$

VAGÃO i

$$m_i \ddot{x}_i + (b_i + b_{i-1}) \dot{x}_i + (k_i + k_{i-1}) x_i - b_i \dot{x}_{i+1} - k_i x_{i+1} - b_{i-1} \dot{x}_{i-1} - k_{i-1} x_{i-1} = f_i(t)$$

