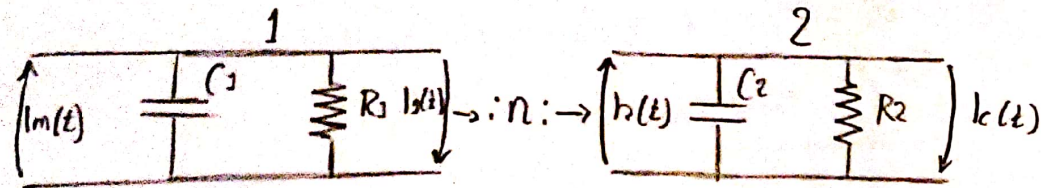


Exercícios p/ 29/09

1) a) Circuito por analogia tipo 2:



$$Em 1: V_1 (C_1 D + 1/R_1) = i_m - i_1$$

$$Em 2: V_2 (C_2 D + 1/R_2) = i_2 - i_c$$

Na transformador: $i_2 = n i_1$

passando p/ o sistema mecânica:

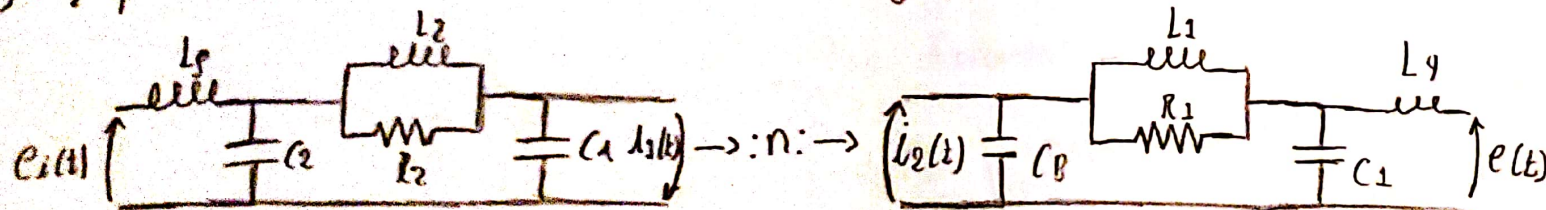
$$1: \Theta_1 (J_1 D + B_1) = T_m - T_1$$

$$2: \Theta_2 (J_2 D + B_2) = T_2 - T_c$$

$$T_2 = n T_1$$

b) 1/4 de carro:

Circuito p/ analogia tipo 1:



$$\Rightarrow \frac{m}{2} \left(\frac{X_2' i_2 + X_4' i_1}{L_1 + L_2} \right) + \frac{J_G}{2} \left(\frac{X_4 - X_2}{L_1 + L_2} \right)$$