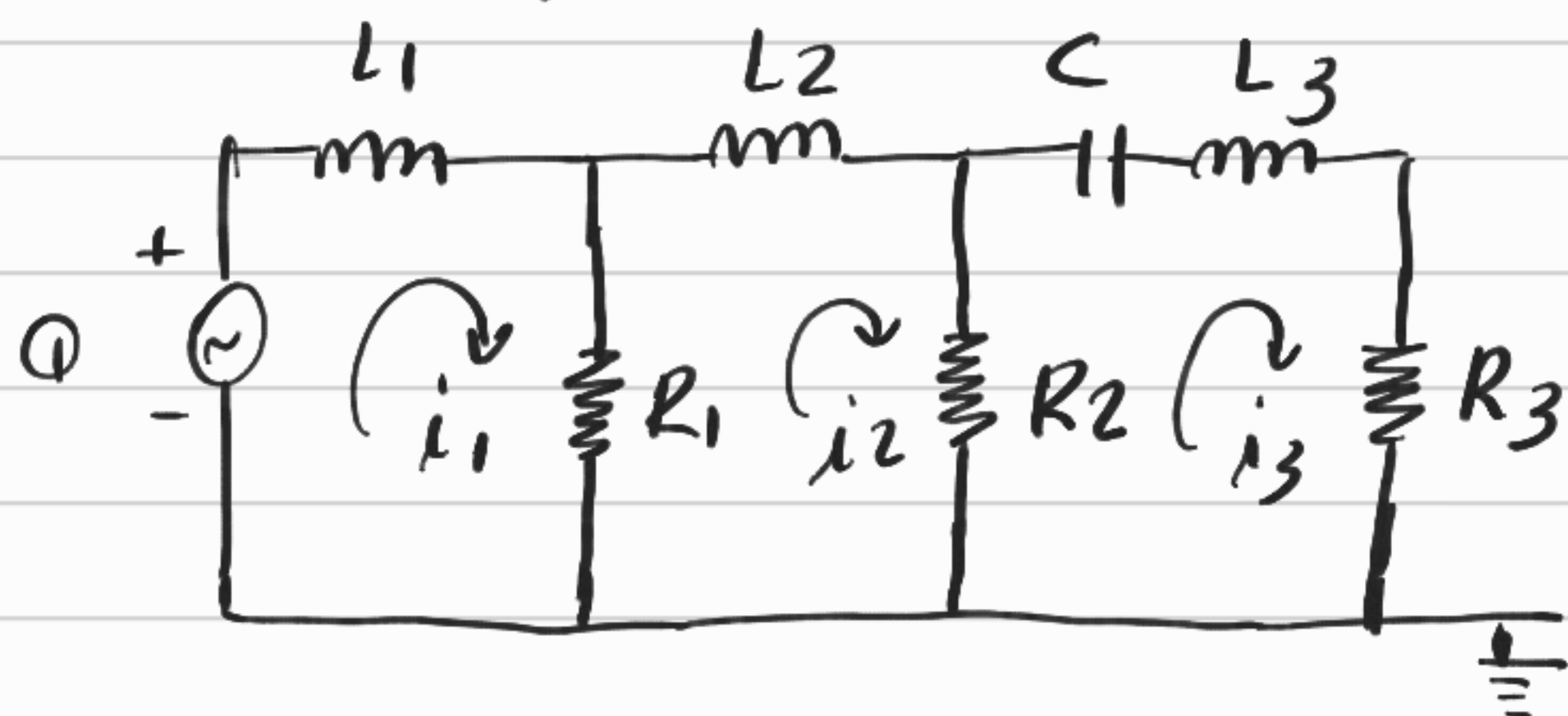
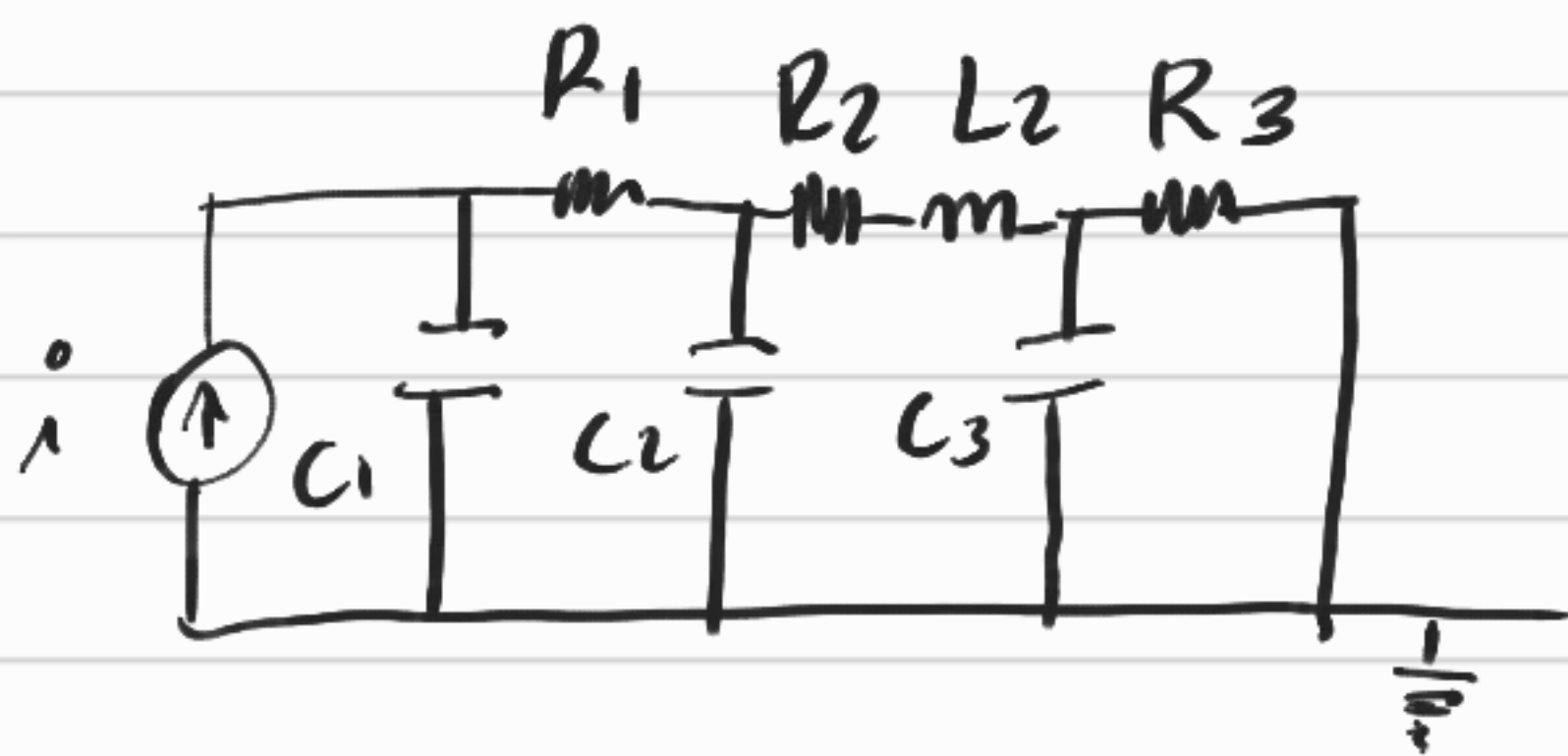


Bruno Nogueira Lucas (10772668)



- $i_1 \cdot (L_1 D + R_1) - i_2 (R_1) = Q$
- $i_2 (R_1 + L_2 D + R_2) - i_1 (R_1) - i_3 (R_2) = 0$
- $i_3 \left( R_2 + \frac{1}{CD} + L_3 D + R_3 \right) - i_2 (R_2) = 0$



- $V_1 - V_2 \left( \frac{1}{R_1} \right) + V_1 (C_1 D) = i$
- $V_2 \left( \frac{1}{R_1} + \frac{1}{R_2} + C_2 D + \frac{1}{L_2 D} \right) - V_1 \left( \frac{1}{R_1} \right) - V_3 \left( \frac{1}{L_2 D} + \frac{1}{R_2} \right) = 0$
- $V_3 \left( C_3 D + \frac{1}{R_3} + \frac{1}{L_2 D} + \frac{1}{R_2} \right) - V_2 \left( \frac{1}{R_2} + \frac{1}{L_2 D} \right) = 0$

$$\rightarrow H_1 - H_2 \left( \frac{1}{R_1} \right) + \dot{H}_1 \cdot A_1 = \Phi$$

$$\rightarrow H_2 \left( \frac{1}{R_1} + \frac{1}{R_2} \right) - H_1 \left( \frac{1}{R_1} \right) - H_3 \left( \frac{1}{R_2} \right) + \dot{H}_2 A_2 + \int H_2 - H_3 A_3 = 0$$

$$\rightarrow H_3 \left( \frac{1}{R_2} + \frac{1}{R_3} \right) - H_2 \left( \frac{1}{R_2} \right) + \dot{H}_3 \cdot A_3 + \int H_3 - H_2 A_3 = 0$$