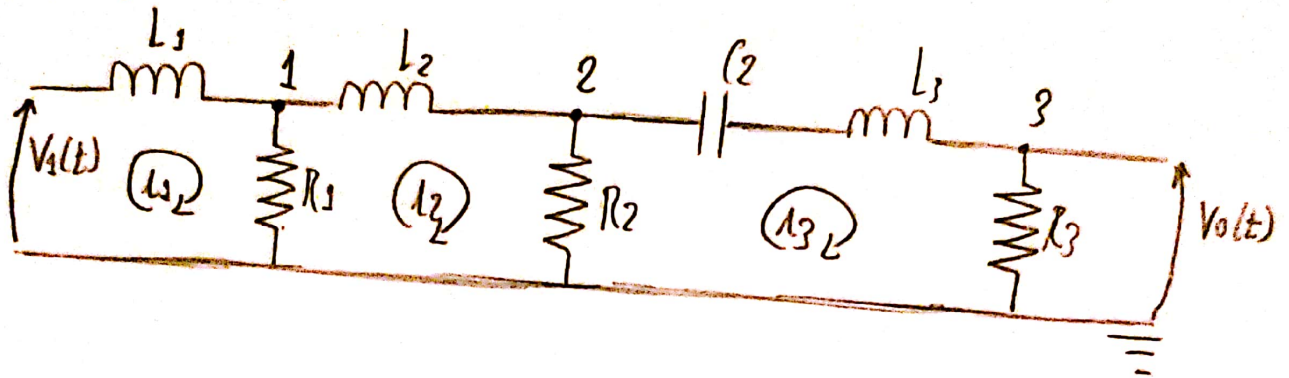
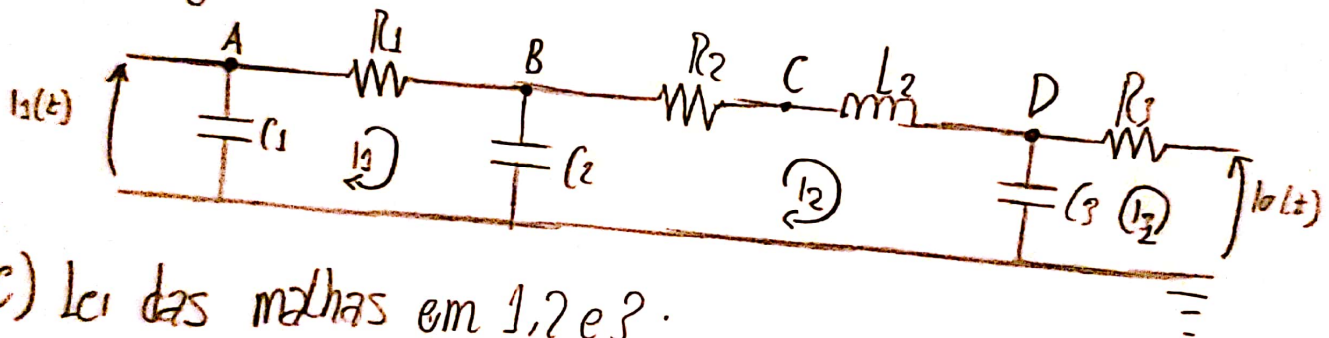


Exercícios p/ 06/10:

a) Analogia tipo 1:



b) Analogia tipo 2:



c) Lei das malhas em 1, 2 e 3:

$$1: (L_1 D + R_1) i_1 - R_1 i_2 = V_1(t)$$

$$2: (R_1 + R_2 + L_2 D) i_2 - R_2 i_3 - R_1 i_1 = 0$$

$$3: (R_2 + R_3 + L_3 D + \frac{1}{C_2 D}) i_3 - R_2 i_2 = V_0(t)$$

Lei dos nós em A, B, C e D:

$$A: V_3 (C_3 D + \frac{1}{R_3}) - \frac{1}{R_1} V_2 = i_1(t)$$

$$B: V_2 (C_2 D + \frac{1}{R_1} + \frac{1}{R_2}) - \frac{1}{R_1} V_1 - \frac{1}{R_2} V_4 = 0$$

$$C: V_3 (C_3 D + \frac{1}{L_2 D} + \frac{1}{R_3}) - \frac{1}{C_2 D} V_4 = i_0(t)$$

$$D: V_4 (\frac{1}{R_2} + \frac{1}{L_2 D}) - \frac{1}{C_2 D} V_3 - \frac{1}{R_2} V_2 = i_0(t)$$