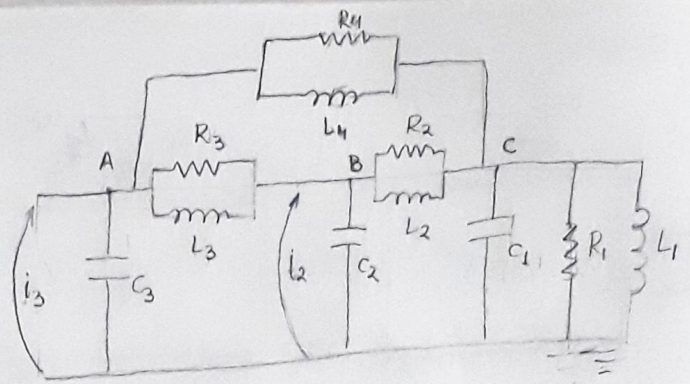
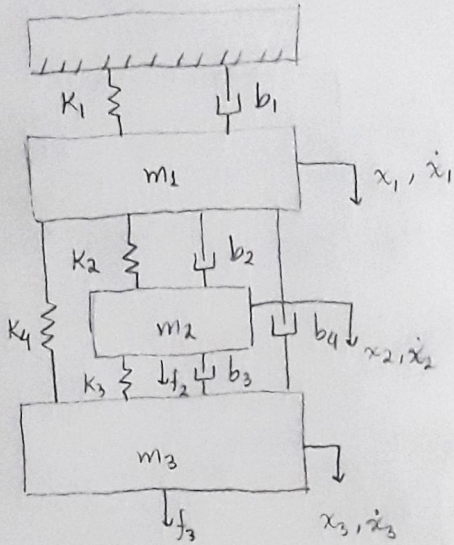


Ex. 1

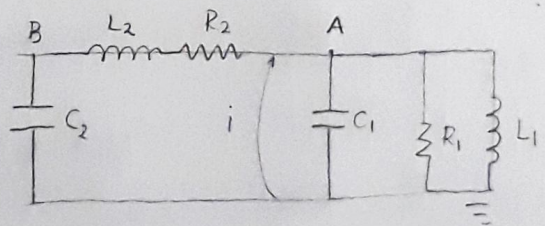
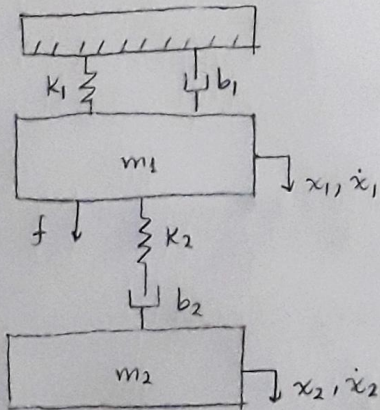


$$\cdot \text{N}^\circ \text{ A: } V_A \cdot \left( C_3 D + \frac{1}{R_3} + \frac{1}{L_3 D} + \frac{1}{R_4} + \frac{1}{L_4 D} \right) - V_B \left( \frac{1}{R_3} + \frac{1}{L_3 D} \right) - V_C \left( \frac{1}{R_4} + \frac{1}{L_4 D} \right) = i_3 ;$$

$$\cdot \text{N}^\circ \text{ B: } V_B \left( C_2 D + \frac{1}{R_2} + \frac{1}{L_2 D} + \frac{1}{R_3} + \frac{1}{L_3 D} \right) - V_A \left( \frac{1}{R_3} + \frac{1}{L_3 D} \right) - V_C \left( \frac{1}{R_2} + \frac{1}{L_2 D} \right) = i_2 ;$$

$$\cdot \text{N}^\circ \text{ C: } V_C \left( C_1 D + \frac{1}{R_1} + \frac{1}{L_1 D} + \frac{1}{R_4} + \frac{1}{L_4 D} \right) - V_A \left( \frac{1}{R_4} + \frac{1}{L_4 D} \right) - V_B \left( \frac{1}{R_2} + \frac{1}{L_2 D} \right) = 0 .$$

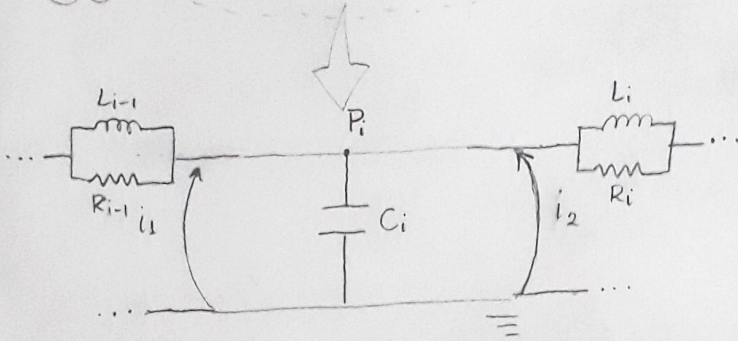
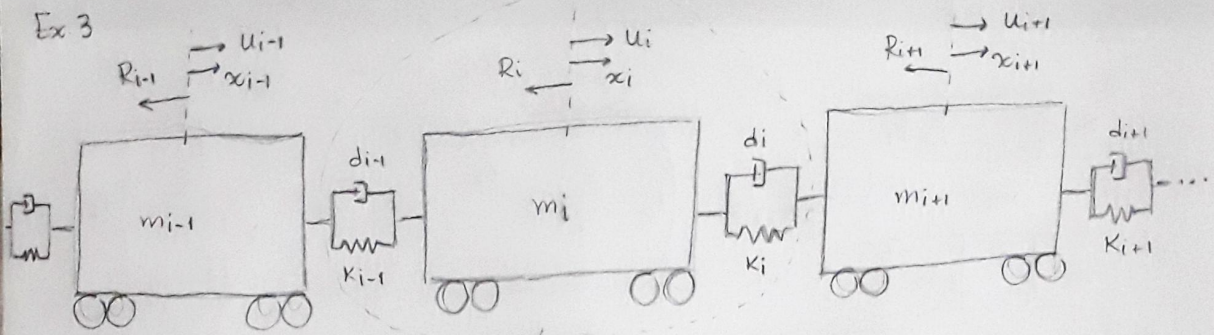
Ex. 2



$$\cdot \text{N}^\circ \text{ A: } V_A \left( C_1 D + \frac{1}{R_1} + \frac{1}{L_1 D} \right) - V_B \left( L_2 D + R_2 \right) = i ;$$

$$\cdot \text{N}^\circ \text{ B: } V_B \left( C_2 D + R_2 + L_2 D \right) - V_A \left( L_2 D + R_2 \right) = 0 .$$

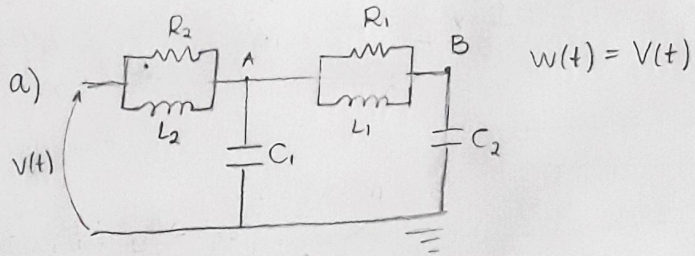
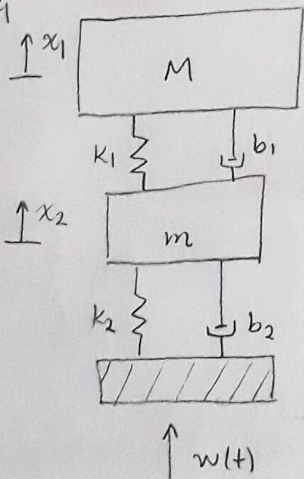
Ex 3



• No  $P_i$ :  $V_{P_i} \left( C_i D + \frac{1}{L_{i-1}} + \frac{1}{R_{i-1}} + \frac{1}{L_i} + \frac{1}{R_i} \right) - V_{P_{i-1}} \left( \frac{1}{L_{i-1}} + \frac{1}{R_{i-1}} \right) - V_{P_{i+1}} \left( \frac{1}{L_i} + \frac{1}{R_i} \right) = i_1 - i_2$ ;

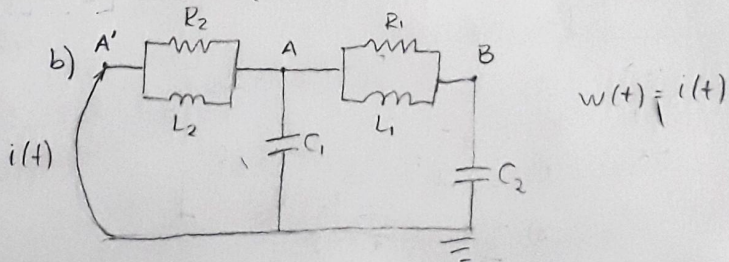
• No  $P_{i+1} = \dots$

Ex 4



• No A:  $V_A \left( C_1 D + \frac{1}{R_2} + \frac{1}{L_2 D} + \frac{1}{R_1} + \frac{1}{L_1 D} \right) - v(t) \left( \frac{1}{R_2} + \frac{1}{L_2 D} \right) - v_B \left( \frac{1}{R_1} + \frac{1}{L_1 D} \right) = 0$

• No B:  $V_B \left( C_2 D + \frac{1}{R_1} + \frac{1}{L_1 D} \right) - V_A \left( \frac{1}{R_1} + \frac{1}{L_1 D} \right) = 0$



• No A':  $V_{A'} \left( \frac{1}{R_2} + \frac{1}{L_2 D} \right) - V_A \left( \frac{1}{R_2} + \frac{1}{L_2 D} \right) = i(t)$ ;

• No A:  $V_A \left( C_1 D + \frac{1}{R_1} + \frac{1}{L_1 D} + \frac{1}{R_2} + \frac{1}{L_2 D} \right) - V_{A'} \left( \frac{1}{R_2} + \frac{1}{L_2 D} \right) - V_B \left( \frac{1}{R_1} + \frac{1}{L_1 D} \right) = 0$ ;

• No B:  $V_B \left( C_2 D + \frac{1}{R_1} + \frac{1}{L_1 D} \right) - V_A \left( \frac{1}{R_1} + \frac{1}{L_1 D} \right) = 0$ .