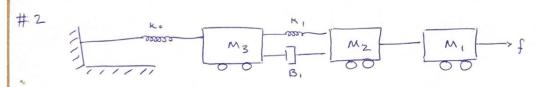
رها دین در ۱۸ مر ۲. سترل می

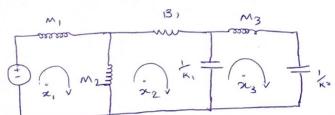
#1 B₂ M₂

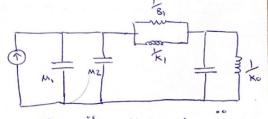
 $U_2 = M_2 \dot{x}_2 + B_1 (\dot{x}_2 - \dot{x}_1) + K x_2$ $U_1 = M_1 \dot{x}_1 + B_1 (\dot{x}_1 - \dot{x}_2) + B_2 x$



 B_2 X_2 X_2 X_2 X_3 X_4 X_4 X_5 X_5







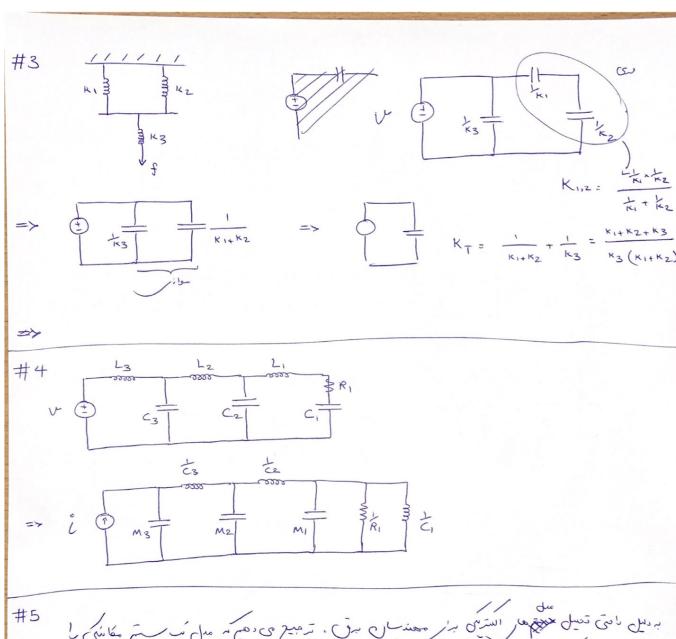
KVL 1: $-V_{+} M_{1} X_{i}(t) + M_{2} \frac{d}{dt} (\dot{x}_{i}(t) - \dot{x}_{2}(t)) = 0 = 0 V_{it} = \dot{x}_{i}(t) (M_{1} + M_{2}) - \dot{x}_{2}(t)$ KVL 1: $-V_{+} M_{1} X_{i}(t) + M_{2} \frac{d}{dt} (\dot{x}_{1}(t) - \dot{x}_{2}(t)) = 0 = 0 V_{it} = \dot{x}_{i}(t) (M_{1} + M_{2}) - \dot{x}_{2}(t)$ (I)

KVL 2: $M_{2} \frac{d}{dt} (\dot{x}_{2}(t) - \dot{x}_{i}(t)) + B_{i} \dot{x}_{1} + K_{1} \int (\dot{x}_{2}(t) - \dot{x}_{3}(t)) dt$

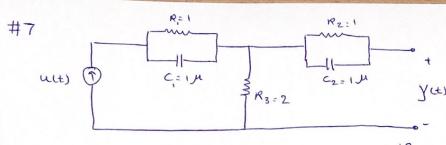
=> M2 x2(t) - M2 x, (t)+ B, x(t) + K, x2(t) - K, x3(t) = 0 (I)

KVL in 3: M3 x3(t) + K. [x3(t) -x2(t)) = 0

=> M3 x3(t) + K0x3(t) + K1x3(t) - K1x2(t) =0 (11)



#6
$$T_1$$
 T_2 T_2 T_3 T_4 T_5 T_5 T_6 T_7 T_8



$$= 2 \frac{dv_B}{dt} + 2V_B - \frac{dv_A}{dt} - V_A - \frac{dv_C}{dt} - V_C = 0 \quad (II)$$

$$\text{Kel} \otimes \text{Uc}: \frac{\text{Vc-VB}}{1} + \frac{\text{d}}{\text{dt}} \left(\text{Vc-VB} \right) = 0 = \sum \frac{\text{dVc}}{\text{dt}} + \text{Vc} = \frac{\text{dVg}}{\text{dt}} + \text{VB}$$
 (III)

$$\frac{\text{CI) in(II)}}{\text{old}} = \frac{dV_B}{dt} + \frac{2V_B}{dt} - \frac{dV_B}{dt} - \frac{dV_C}{dt} - \frac{dV_C}{dt} - \frac{dV_C}{dt} + \frac{dV_B}{dt} - \frac{dV_C}{dt} - \frac{dV_C}{dt} - \frac{dV_C}{dt} = 1$$
(IV)

$$\frac{dV_c}{dt} + V_c - \frac{dV_c}{dt} - U_c = 1 ???$$