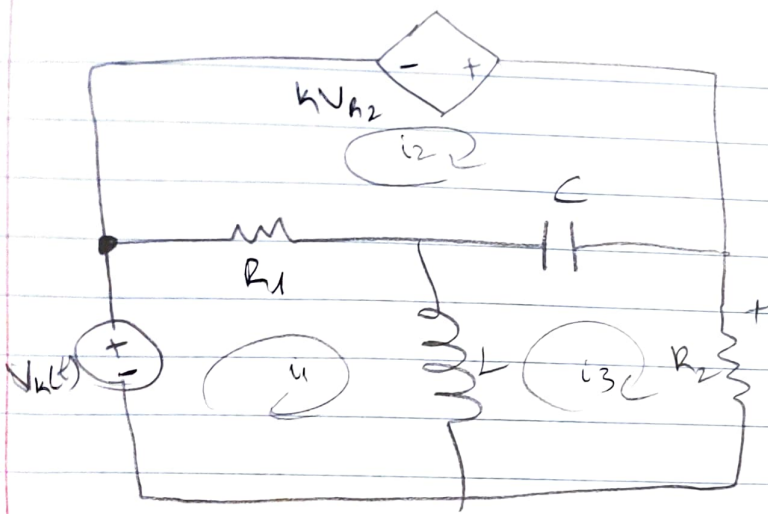


Seno ERS04  
060200434  
SMA



current through  
inductor =  $i_1$

voltage across capacitor  
=  $V_C$

$$V_k(t) - R_1(i_1 - i_2) - V_L = 0$$

$$hV_{R_2} - V_C - R_1(i_2 - i_1) = 0$$

$$\Rightarrow V_L - V_C - R_2 i_3 = 0$$

$$V_k(t) - R_1(i_1 - i_2) - L \frac{di_1}{dt} = 0$$

$$hV_{R_2} - V_C - R_1(i_2 - i_1) = 0$$

$$-L \frac{di_1}{dt} - \frac{Q}{C} - R_2 i_3 = 0$$