EEE117 Homework 3

Unit multipliers are: $n = x\ 10^{-9}$, $\mu = x\ 10^{-6}$, $m = x\ 10^{-3}$, $k = x\ 10^{3}$, $M = x\ 10^{6}$

1 For the circuit of figure 1 find

    (i)   the current I_S

    (ii)   the energy stored in L_1

    (iii) the energy stored in C_1

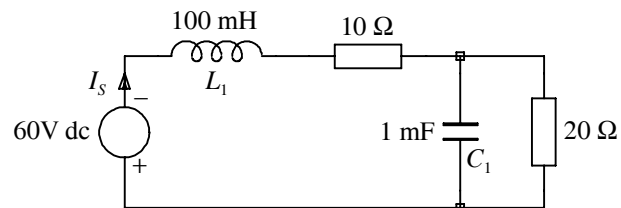
Figure   1

2 For the circuit of figure 2, find

    (i)   the current I_1

    (ii)   the power dissipated in R_1

    (iii) the energy stored in L_1

    (iv) the energy stored in L_2

    (v)   the energy stored in C_1

    (vi) the energy stored in C_2
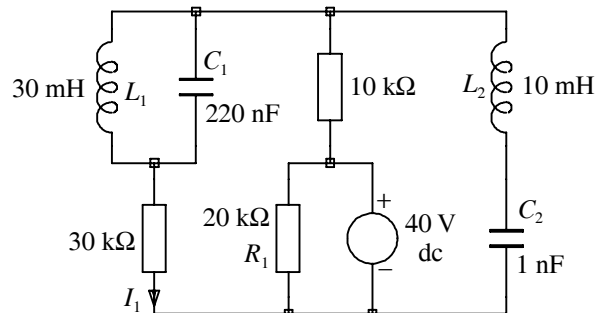

Figure   2