

The University of Sheffield
Department of Electrical and Electronic Engineering

EEE117 Homework 3

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

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

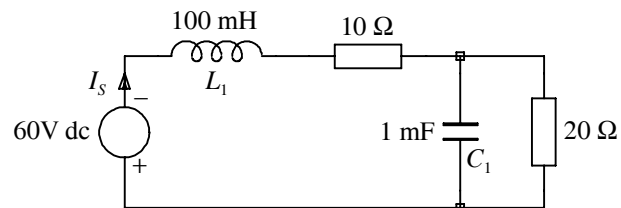


Figure 1

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

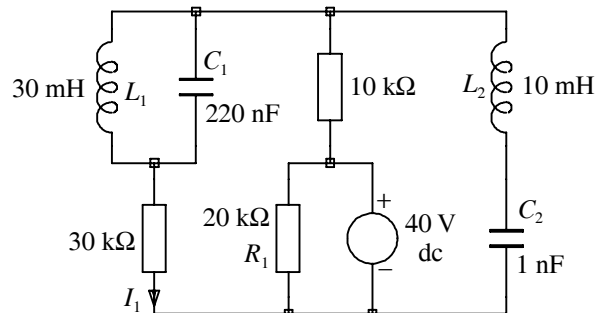


Figure 2