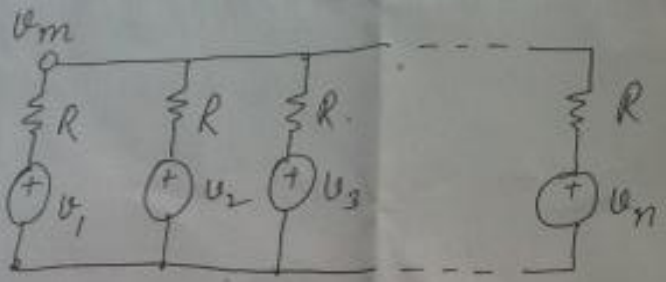
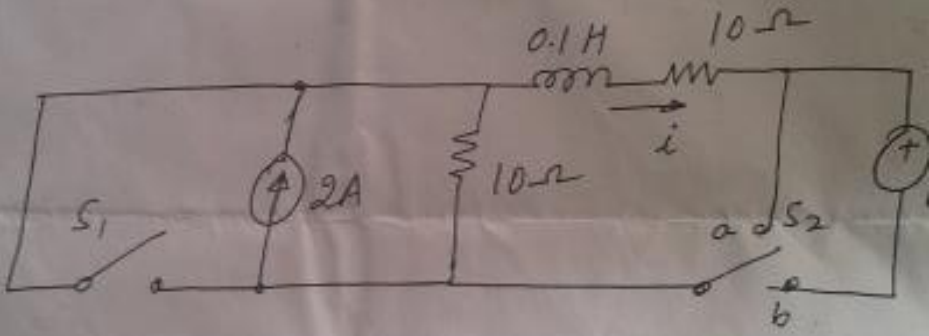
Ques 4



a) Obtain v_m (4)

b) Implement this operation using op amp

Ques 5



Assume $i = I_0$ at time $t = 0$.

At $t = 0$ switch S_1 is opened & switch S_2 is moved from 'a' to 'b'

a) Obtain $i(t)$ (5)

b) Plot $i(t)$

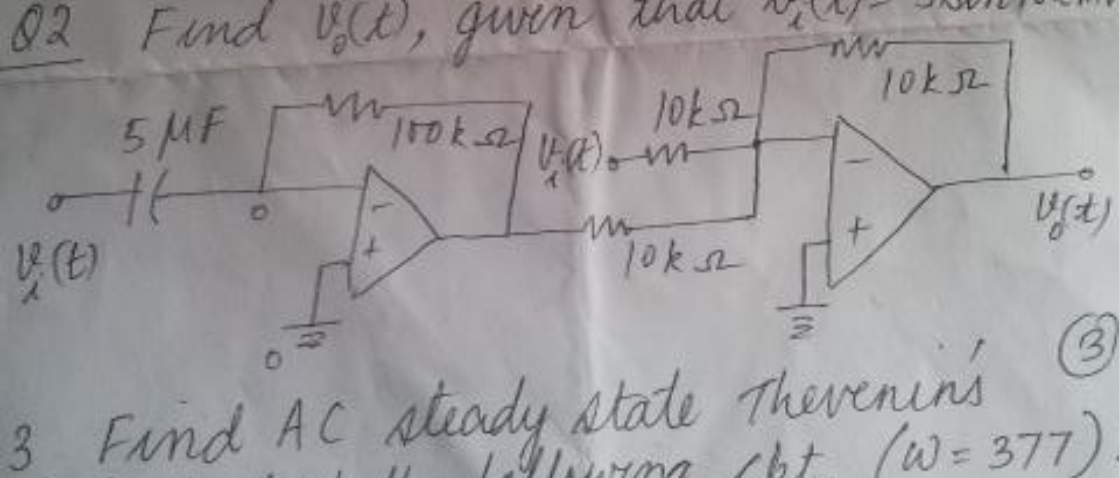
ELL102 – MINOR I

1st Sem 2013-14 Max Marks: 20, Duration: 1h

Q1 Find the Thevenin's Equivalent for the circuit shown in the following fig.

(4)

Q2 Find $V_o(t)$, given that $V_i(t) = 5\sin 10t$ mV



(3)

3 Find AC steady state Thevenin's equivalent of the following ckt. ($\omega = 377$).