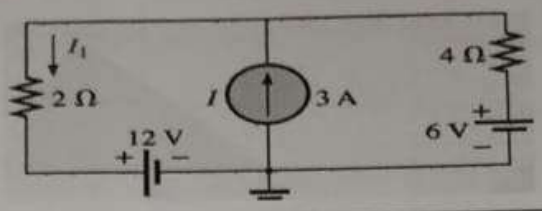
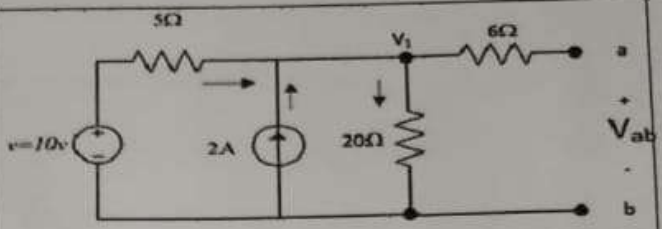
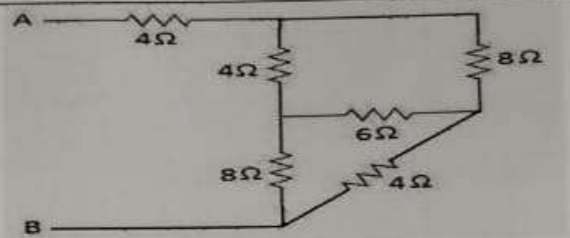
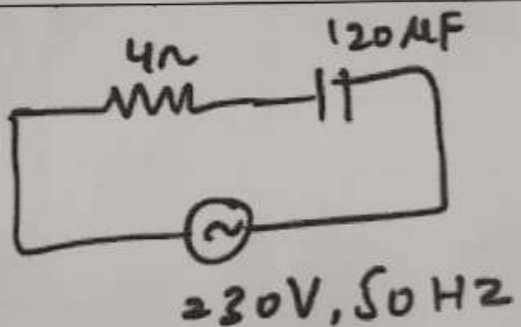
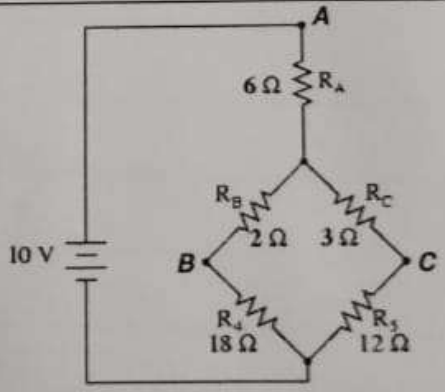
ECE249: academic tasks-2 Set A

Que	Statement/ Description		RBL	MM	CO
Q1	Find the current through 2 ohms resistance using Superposition Theorem.		L2	5	CO1
Q2	Reduce the following circuit into Thevenin's equivalent circuit?		L4	5	CO1
Q3	Find the resultant resistance of the following circuit.		L2	5	CO1
Q4	A 200kVA, 3500/250V, 50Hz, single phase transformer has90 turns on the secondary winding. Assuming an ideal transformer, find i) primary and secondary currents, ii) max value of flux, ii) number of turns in the primary winding		L3	5	CO3
Q5	A series RC circuit having R= 4Ωand C= 120μF is connected across 230 V, 50 Hz supply. Calculate (a) reactance (b) impedance (c) current drawn by circuit (d) power factor		L4	5	CO2
Q6	Using Kirchhoff's voltage or current law find the voltage across R_5=12 ohms resistance.		L3	5	CO