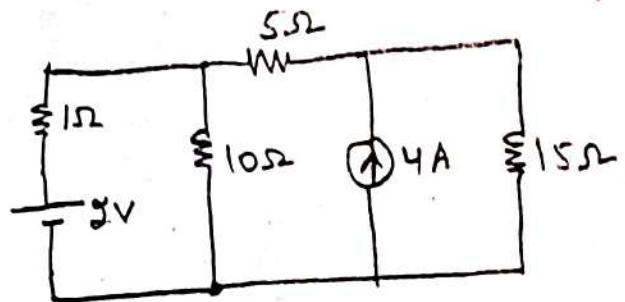
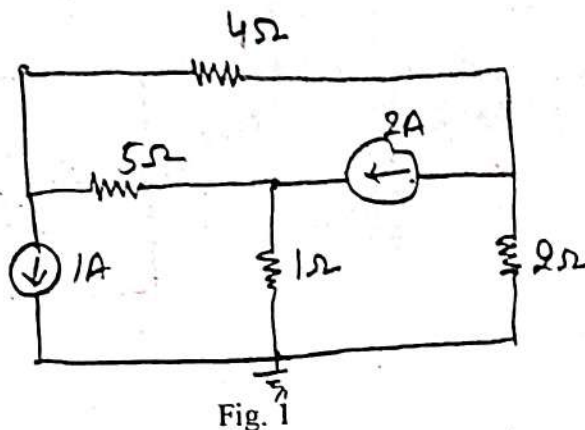


NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
SESSIONAL-I
CIRCUIT THEORY (ECPC-101)

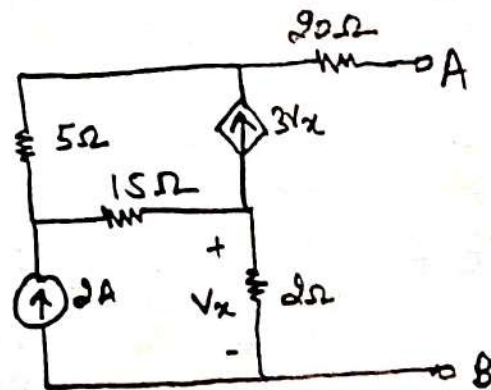
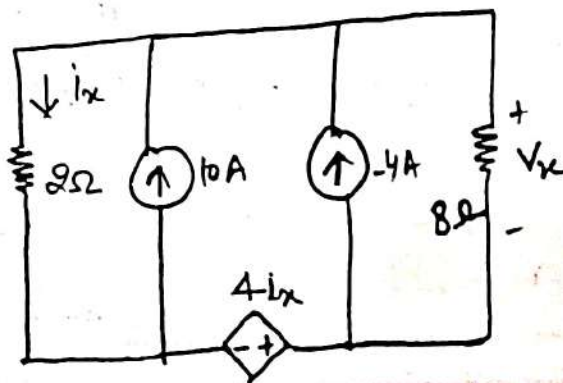
MAX. MARKS: 20

TIME: 45 MINS

- Find the voltage drop across 5Ω resistor in the network shown in Fig. 1 using nodal analysis. 5 Marks



- In Fig. 2, find the current through 10Ω resistor using mesh analysis. 5 Marks
- In Fig. 3, find v_x using superposition theorem 5 Marks



- Find the Norton's equivalent circuit across the terminals A-B in Fig. 4. 5 Marks