



BENNETT
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INDIA GROUP

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Name of Student ----- Enrolment No. -----

Department / School -----

BENNETT UNIVERSITY, GREATER NOIDA
Mid Term Examination, Fall SEMESTER 2019-20

COURSE CODE: EECE105L

MAX. DURATION: 1 Hour

COURSE NAME: Fundamentals of Electrical and Electronics Engg. MAX. MARKS: 25

Note: Attempt all the questions. Each question carries 5 marks

Q.1 Determine V_x in the circuit of Fig. 1. Also, find out the total power dissipation.

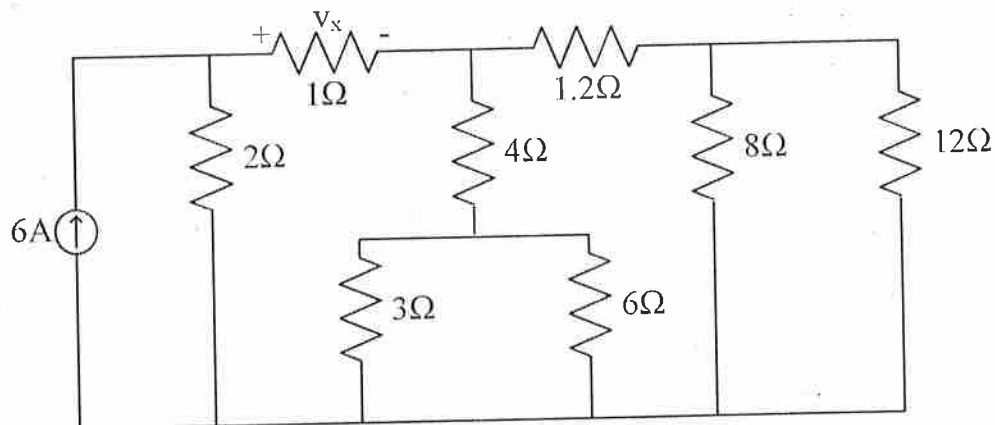


Fig. 1

Q.2 Using nodal analysis evaluate v_o in the circuit of Fig. 2.

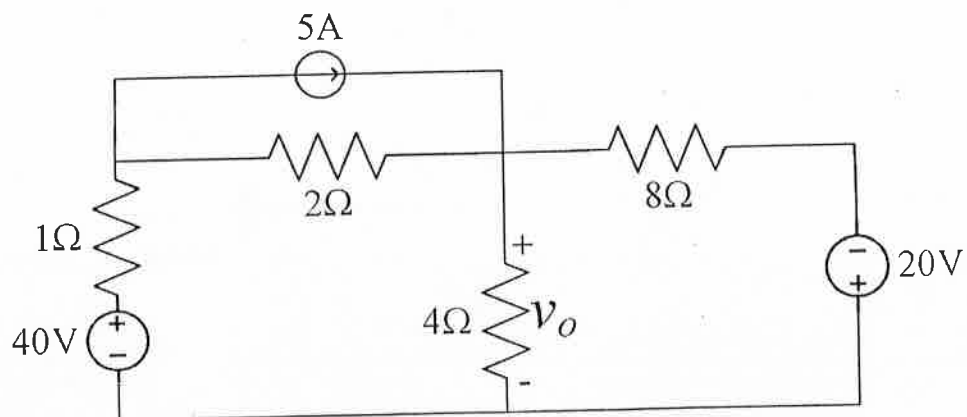


Fig. 2

Q.3 Find current through the 12Ω resistor in Fig. 3 using source transformation.

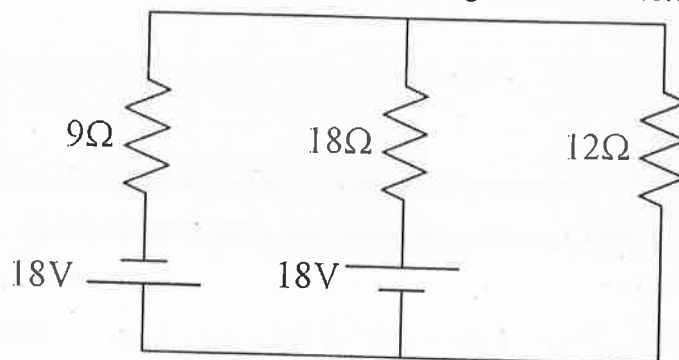


Fig. 3

Q.4 Find the Thevenin equivalent circuit of Fig. 4 to the left of the terminals A-B.

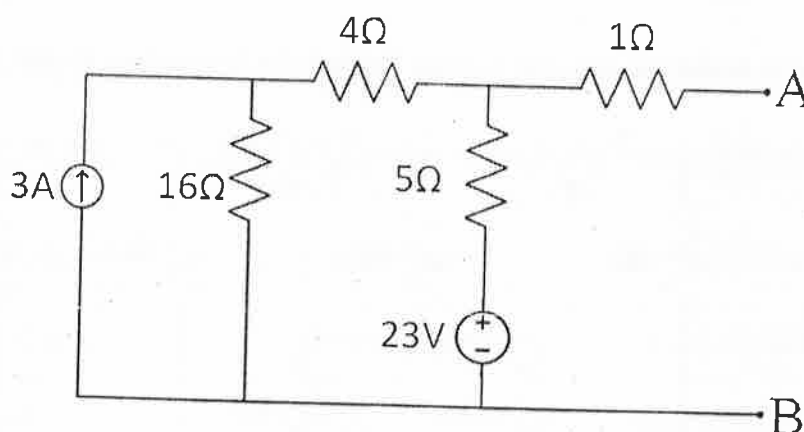


Fig. 4

Q.5 Determine the total equivalent capacitance and impedance between terminals A-B of the circuit in Fig. 5.

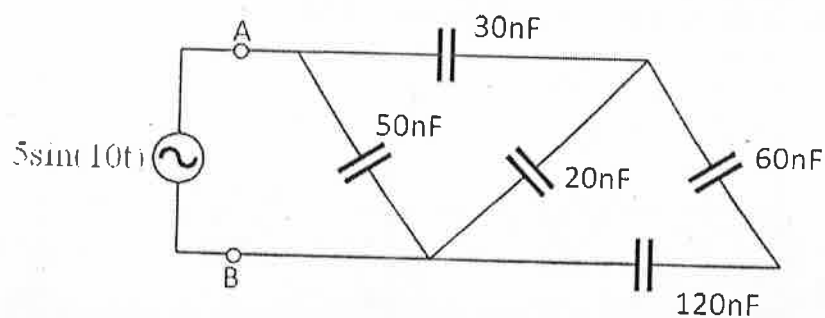


Fig. 5