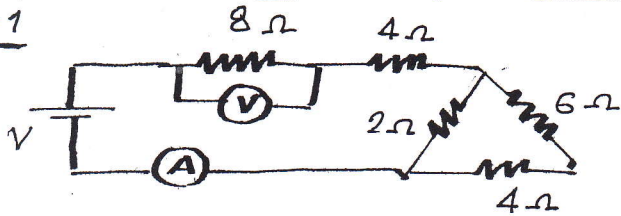
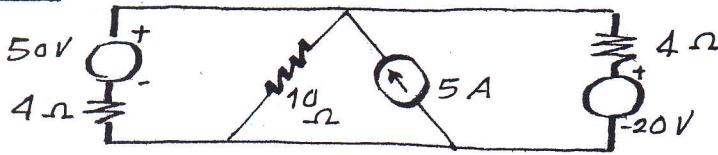


Q-1



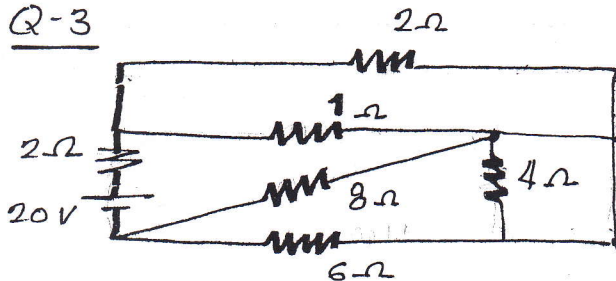
If voltmeter reading is 80 volts find Ammeter reading. Show that power supplied by source is equal to power consumed by all resistances.

Q-2



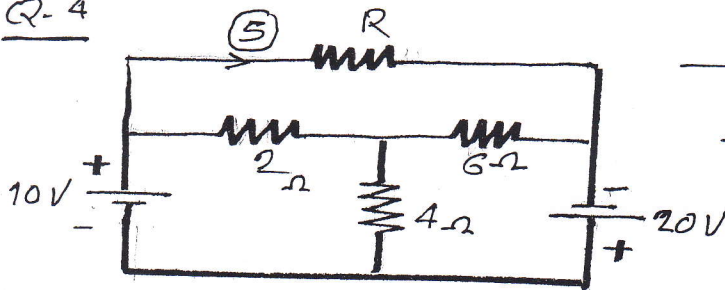
Find currents in all branches by superposition theorem - check your results by applying any other theorem.

Q-3



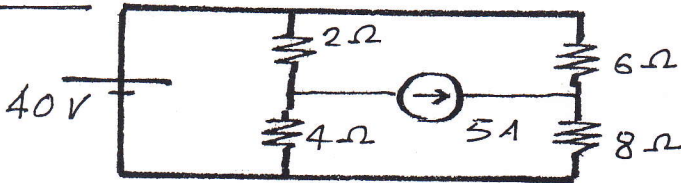
Write the equation relating branch, junction and mesh. How many branches are in the ckt? Find all branch currents.

Q-4



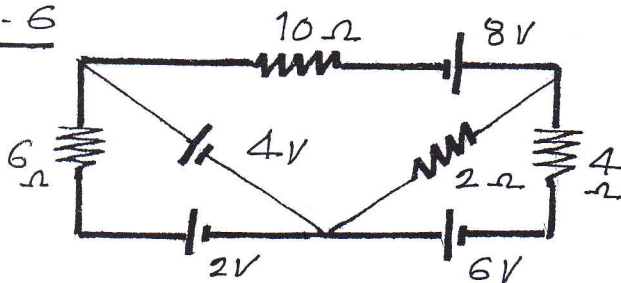
Find 'R' if current through it is 5 Amps. Find also all branch currents by node-pair voltage method. Check your answers by any other theorem.

Q-5



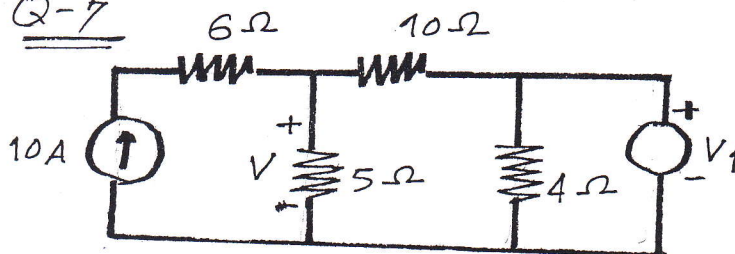
Find all branch currents by mesh equations.

Q-6



Find current 10Ω by Thevenin's Theorem - & check your results by applying node-pair voltage method.

Q-7



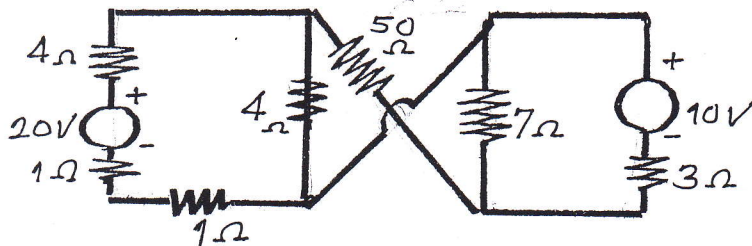
If $V = 20$ volts. Find V_1 and all branch currents. What is total power consumed by the entire ckt?

Q-8

Define

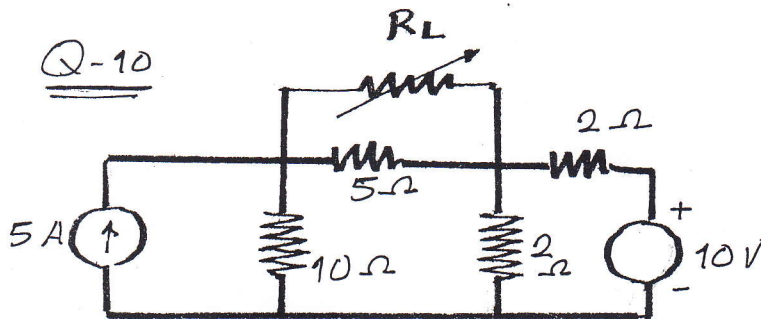
- i) node or junction
- ii) branch current
- iii) mesh current.
- iv) bilateral element
- v) passive and active elements.
- vi) linear element.
- vii) Actual volt. source & current source.

Q-9



— find current through 50Ω resistance by Thevenin's Theorem & check your answer by applying any other theorem.

Q-10



State and prove max. power transfer Theorem -

— find value of ' R_L ' to have max. power in it. What is the value of this max. power in it?

V. A. Hambire
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F. E III