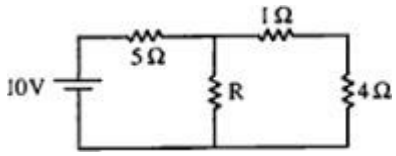
BEEE UNIT-1 IMP

State & Explain Thevenin theorem with the help of an example.

Explain the source transformation technique.

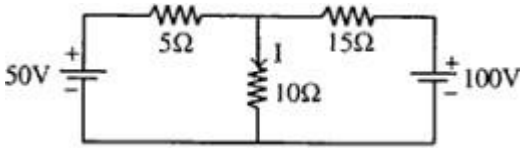
What is the value of unknown resistor R? If the voltage drop across the 4Ω resistor is 2V for the circuit shown in figure below-



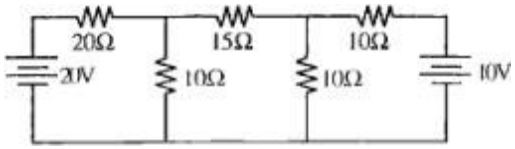
Explain the Nodal analysis with suitable example.

For the circuit shown in figure, determine the current I through the 10 Ω resistance by following methods-

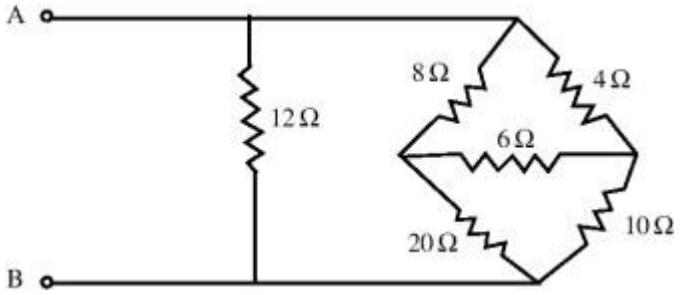
(1.) KCL
(2.) KVL
(3.) Superposition theorem.



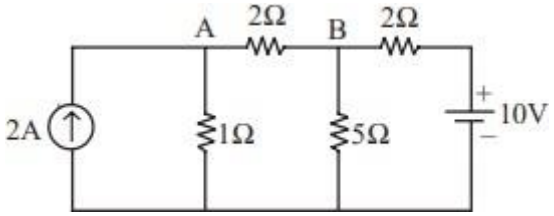
Determine the currents in all branches of the network shown below-



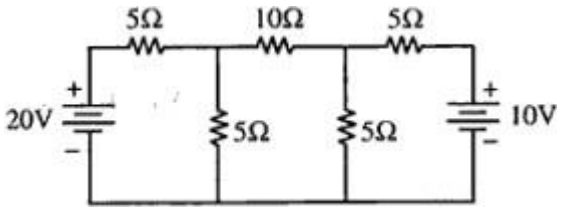
Find the resistance R_{ab} in the figure using star delta transformation.



Determine the current in the branch AB using Superposition Theorem.



Find the value of current in 10Ω resistance for the following circuit using Kirchhoff's law.



State & Prove Superposition theorem.