

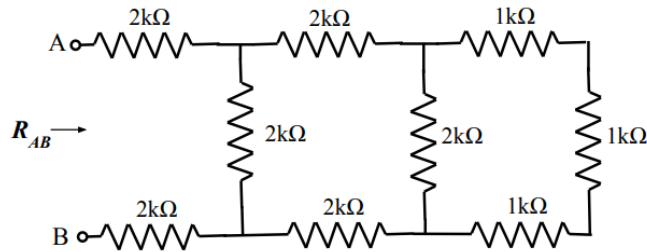
Basic Electrical Engineering

BEEE101L

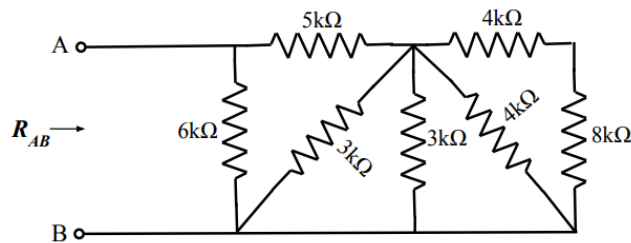
Assignment 1

1. Find the R_{AB} in the circuit shown Figures.

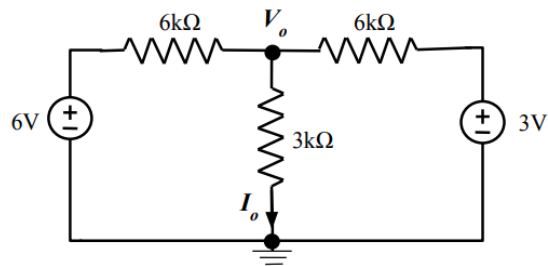
a)



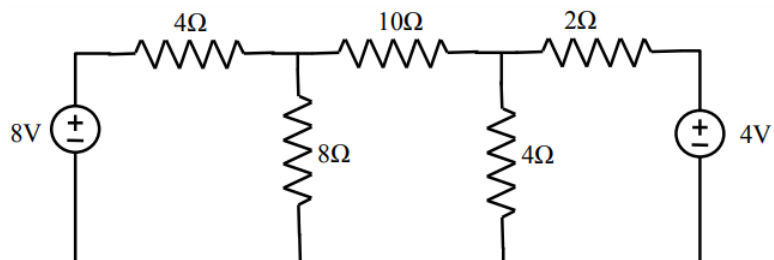
b)



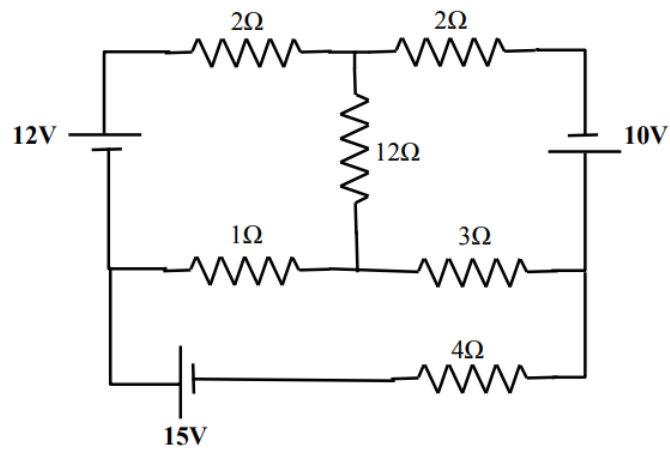
2. Use nodal analysis to find the current I_o in the network in Figure.



3. Determine the current through the 10 Ω resistor, using nodal analysis.



4. Determine the current in 12Ω resistor (Use mesh analysis).



5. Find R_L for maximum power transfer and the maximum power transferred.

