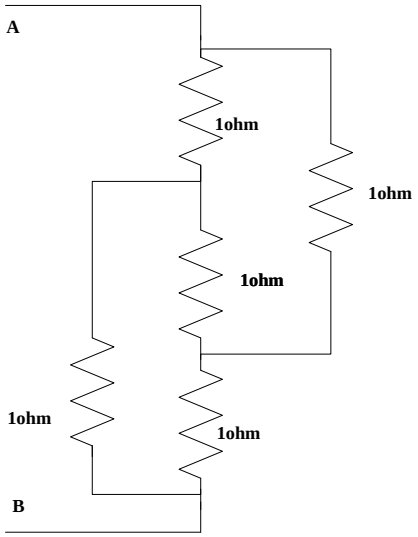
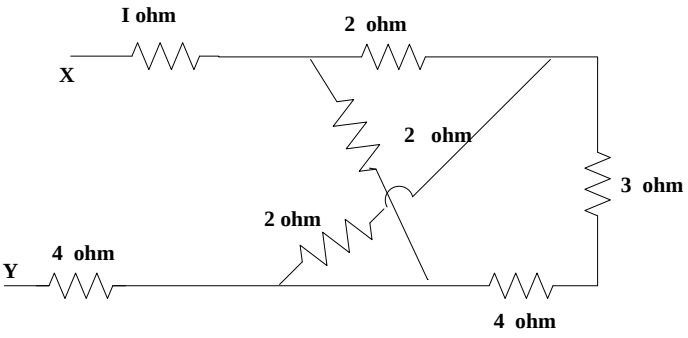
Basic Electrical Science- Assignment1

Last Date for Submission: 22-01-2021

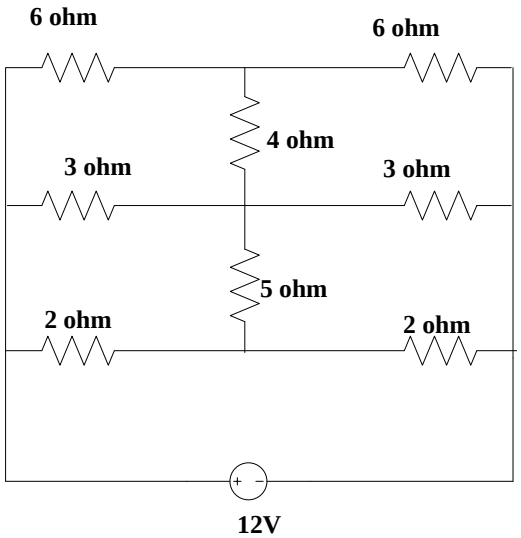
1. Find the resistance between A and B?



2. Find the resistance between X and Y?



3. Find the source current?



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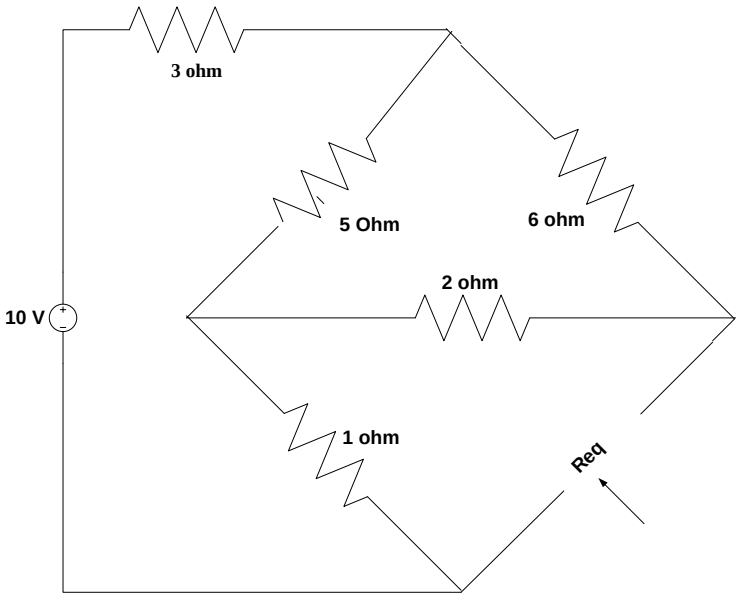
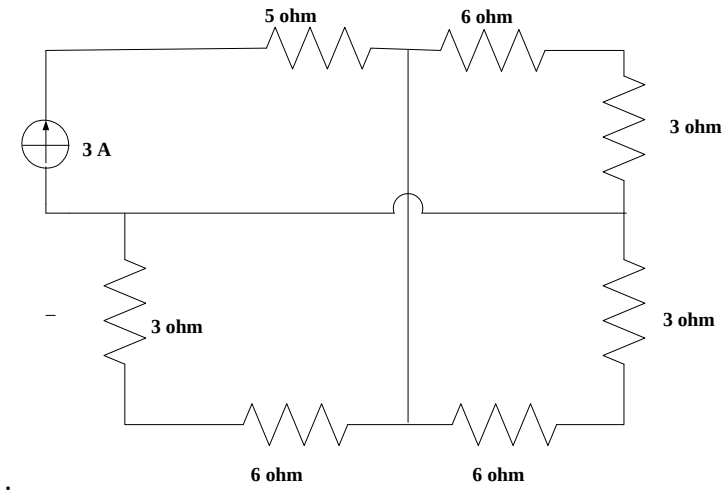
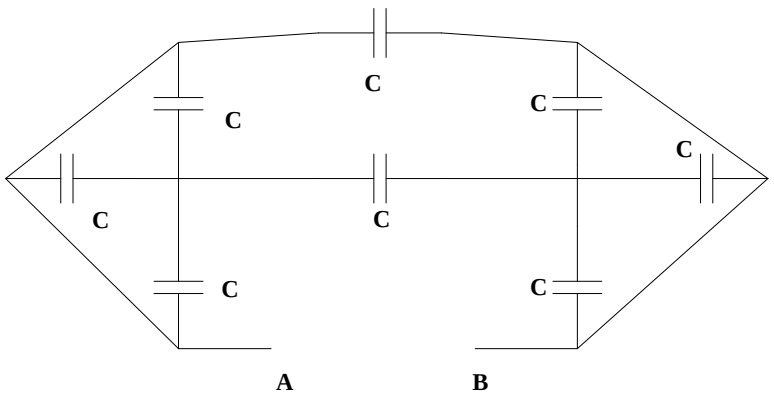
4. Find Req?



5. Find the power delivered by current source?



6. Find the equivalent capacitance between A and B?



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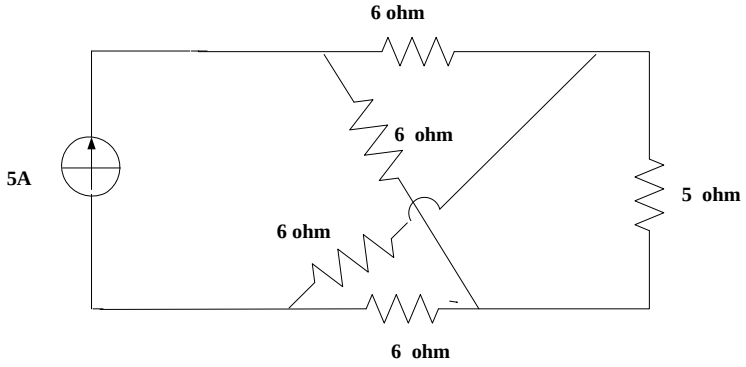
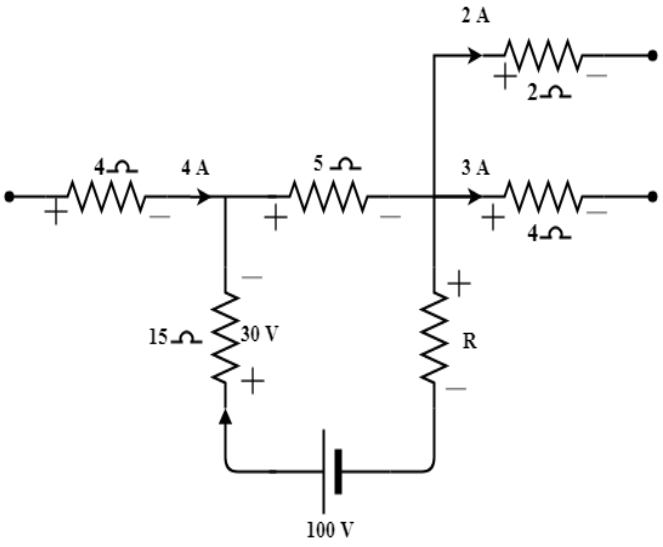
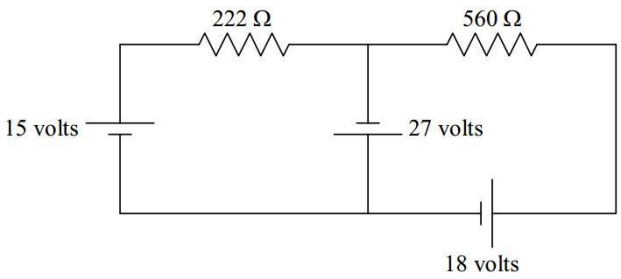
7. Find the power delivered by current source?



8. a. Determine the value of R in the circuit shown below.
   b. Find the power absorbed by resistor R in circuit shown below.



9. Find the current through each of the resistors in the circuit shown below?



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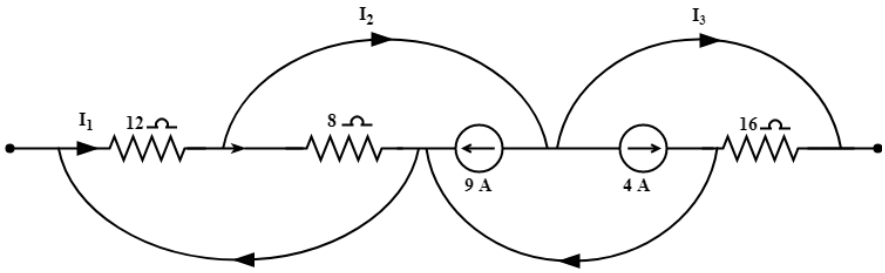
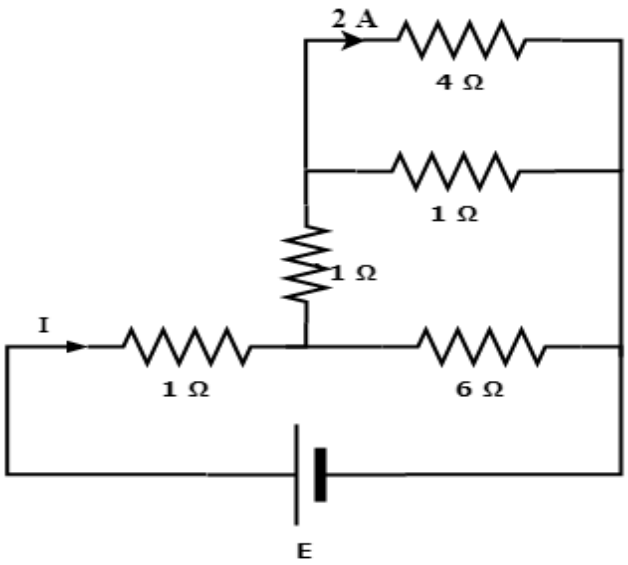
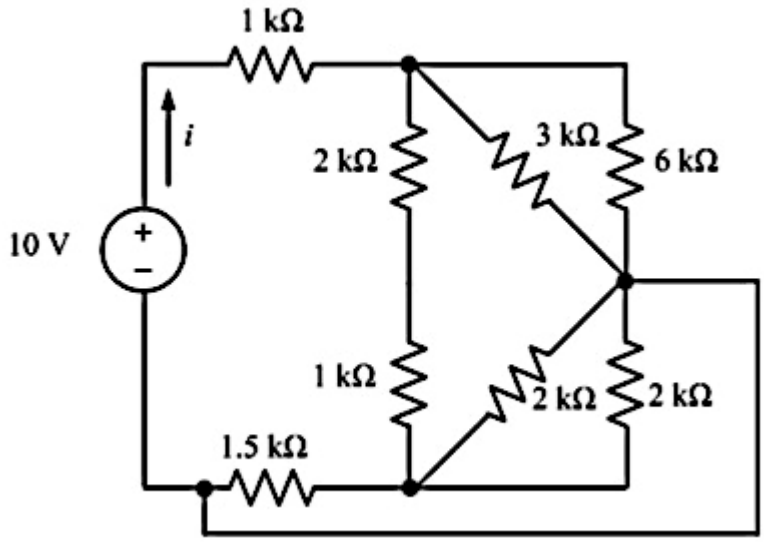
10. Determine the value of I_1, I_2, and I_3 in the circuit shown below?



11. Determine the value of E, I in the circuit shown below?



12. Find the current i in the circuit?



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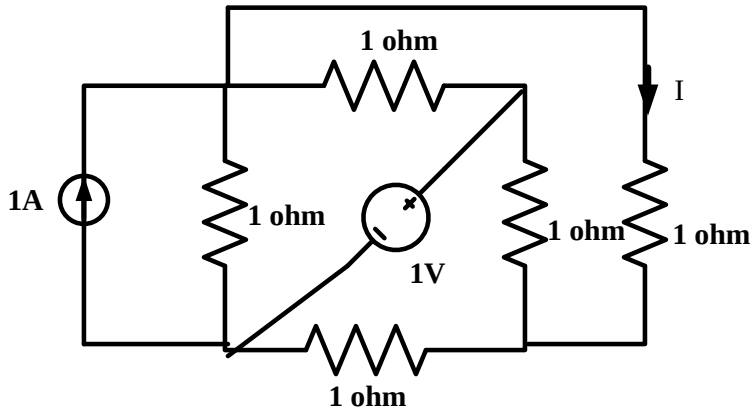
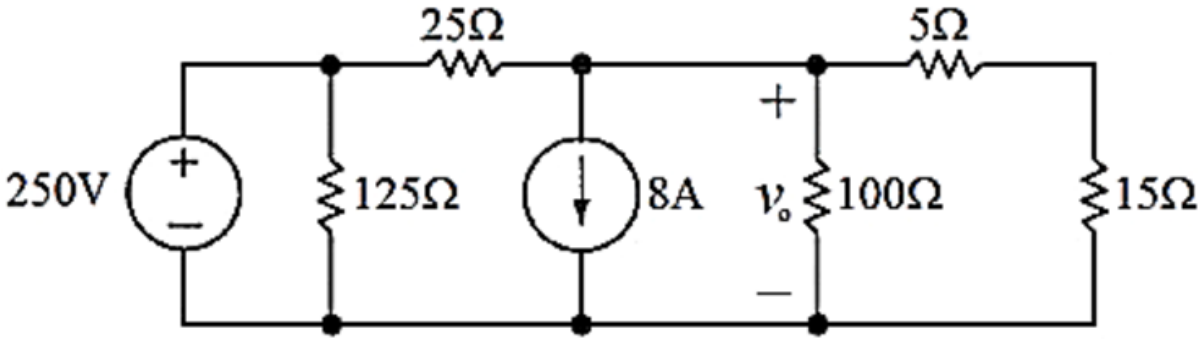
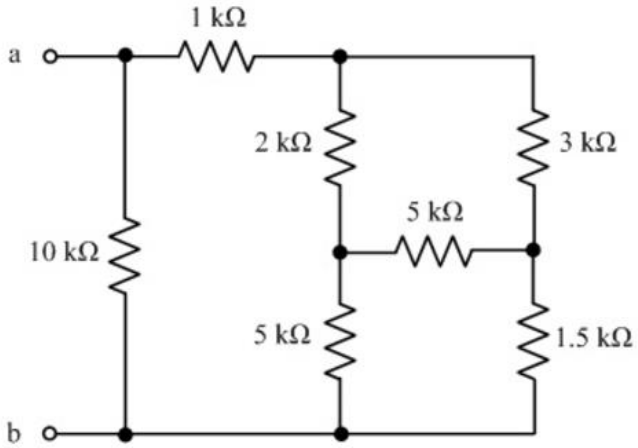
13. Consider the circuit shown in figure. Determine the current I.

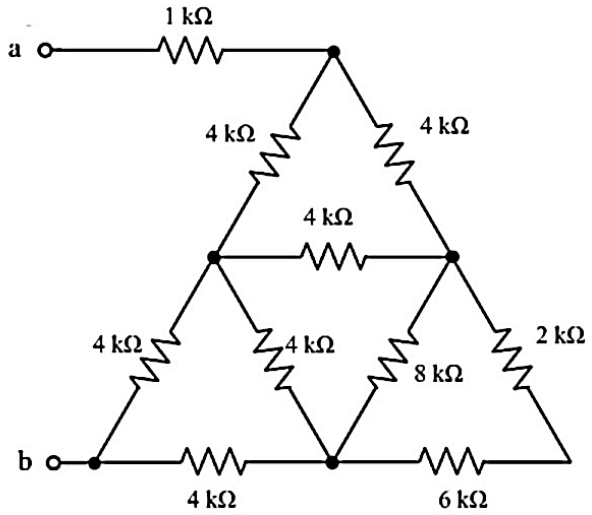


14. Find Vo the circuit shown below?

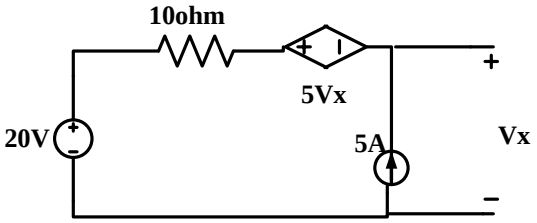


15. Find the equivalent resistance between a & b in the circuits shown in below?

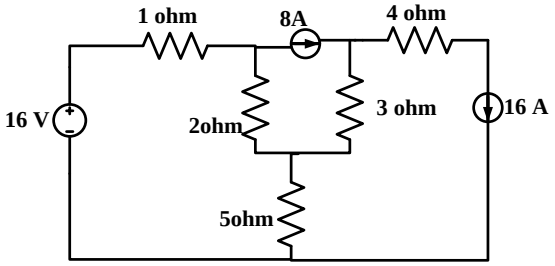




16. Determine V_x by using superposition theorem



17. Determine the power absorbed by 5ohm resistance using thevenins theorem



18. Determine thevenin's equivalent circuit between A and B

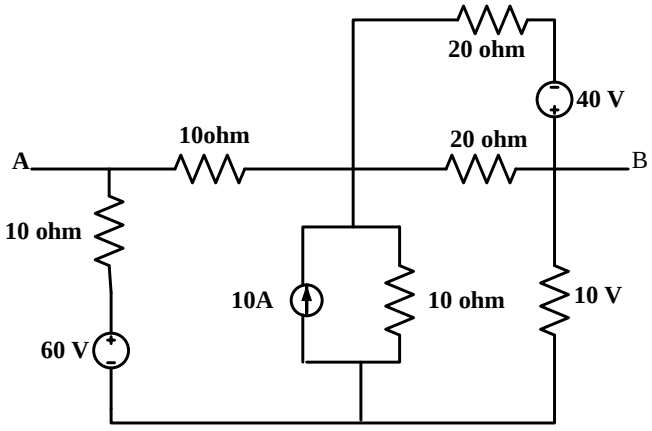


Fig 6

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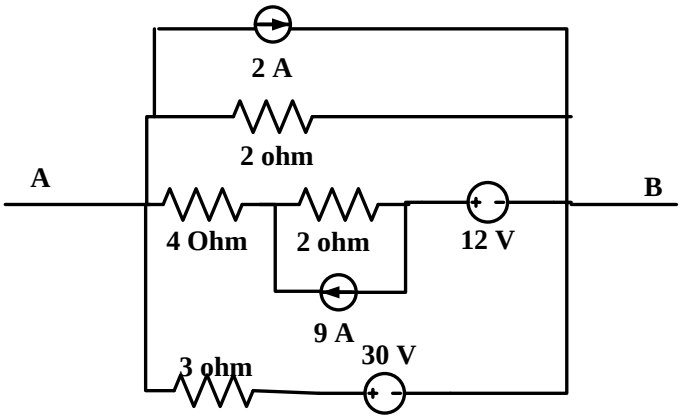
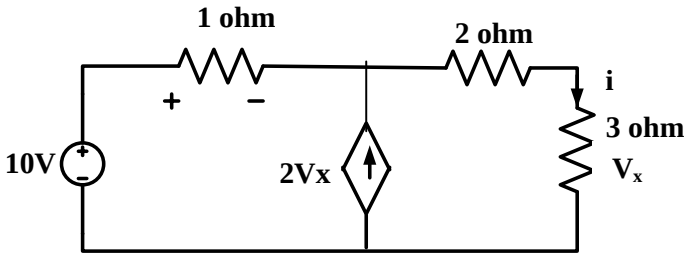
19. Determine Norton's equivalent between A and B?



20. Determine current i by using Thevenin's and Norton's theorem



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