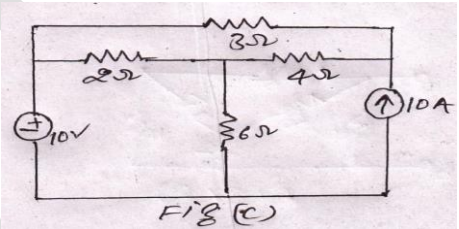
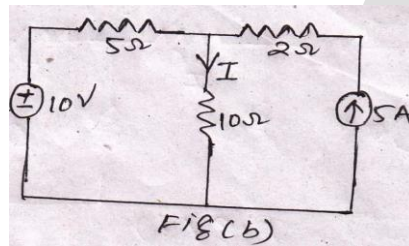
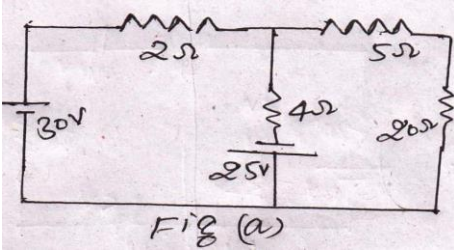


Agnihotri Engineering Classes

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DC & AC CIRCUIT ANALYSIS

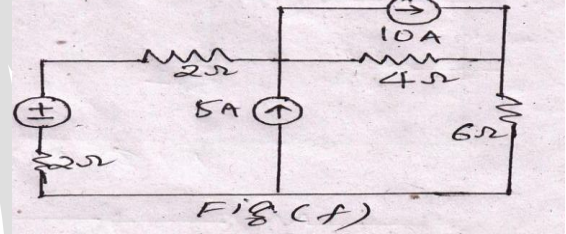
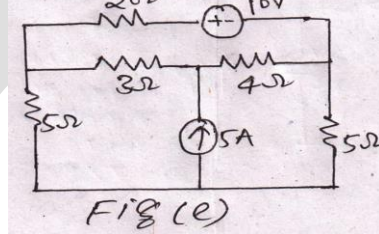
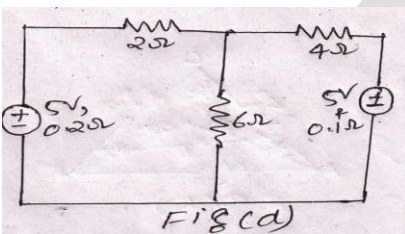
Q.1) Solve current in each branch of circuit by applying superposition theorem in figure (a)?



Q.2) Calculate the indicated current I in ckt shown in figure (b)

Q.3) Find current across 6Ω resistor by applying superposition theorem as in figure (c)?

Q.4) Find power loss in 4Ω resistor by applying superposition theorem from fig(d)?

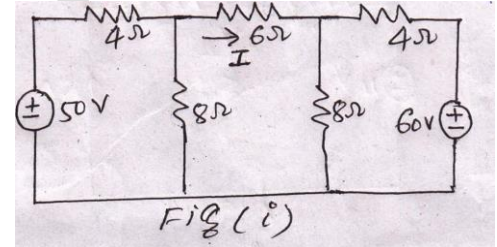
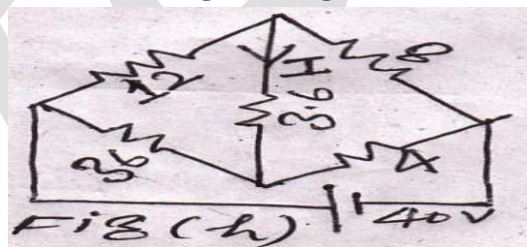
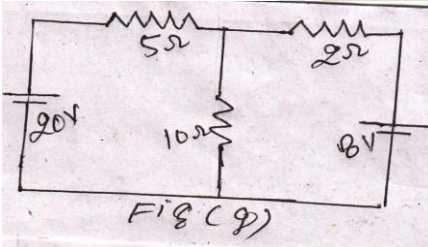


Q.5) Find the voltage across 4Ω resistor by applying superposition theorem in fig.(e)?

Q.6) Find the current across 6Ω resistor by applying superposition theorem in fig.(f)?

Q.7) Apply Thevenin theorem in ckt of figure (g) to calculate current across 10Ω resistor ?

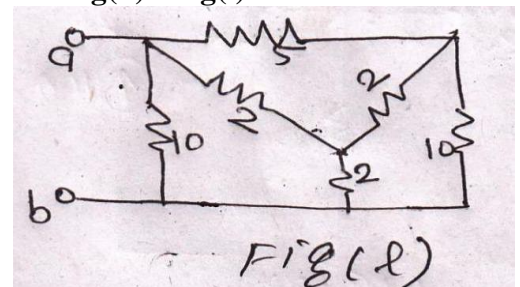
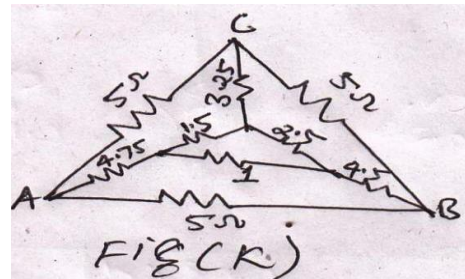
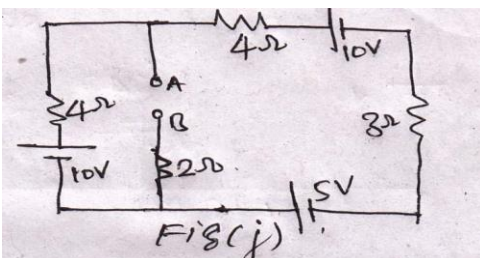
Q.8) Calculate current I as indicated in ckt of fig(h) using Thevenin theorem?



Q.9) Find the current I as shown in ckt of figure(i) using Thevenin theorem?

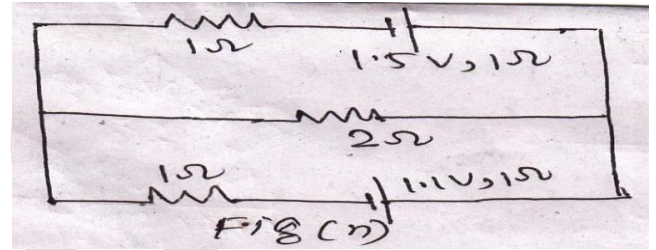
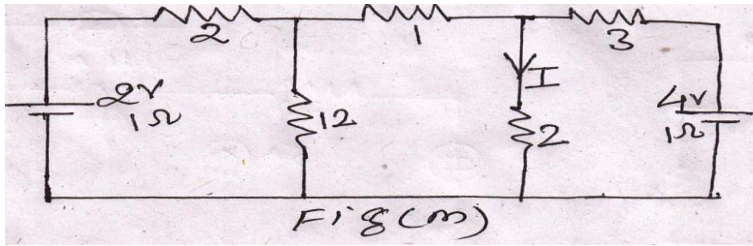
Q.10) Find the power across 8Ω resistor connected across AB as shown in figure (j)

Q.11) Using star delta transformation find equivalent resistance across AB in fig(k) & fig(l)



Q.12) Solve circuit of figure(m) to find current I using
 i) Maxwell loop analysis b) Node Analysis c) Superposition theorem & d) Thevenin theorem

Q.13) Solve circuit of figure(n) to find current across $2\ \Omega$ resistor using
 i) Superposition theorem & ii) Maxwell loop analysis?



Q.14) A choke coil has the resistance of $10\ \Omega$, inductance of 0.05 Henry is connected in series with a 100 micro farad capacitor, the whole ckt has been connected to 200 v, 50 HZ supply calculate
 i) Impedence ii) Current iii) Power Factor iv) Power Input

Classes on (ED, BEEE, M1, M2, M3, NA, CONTROL, DSP & other GATE oriented Engineering Subjects)

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