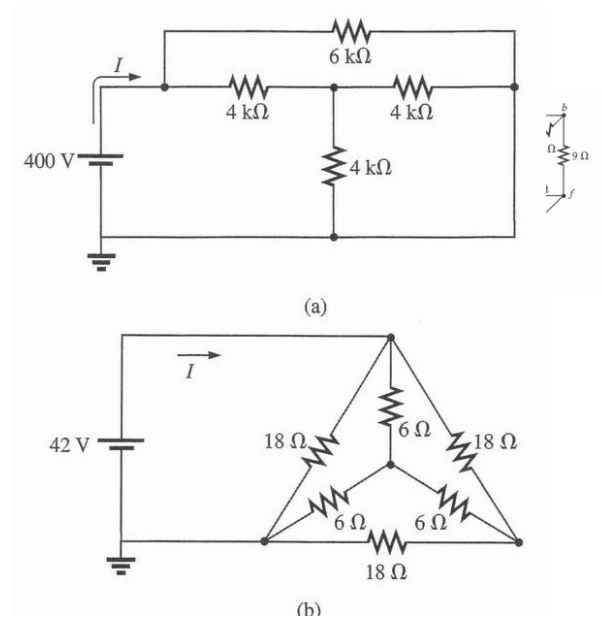
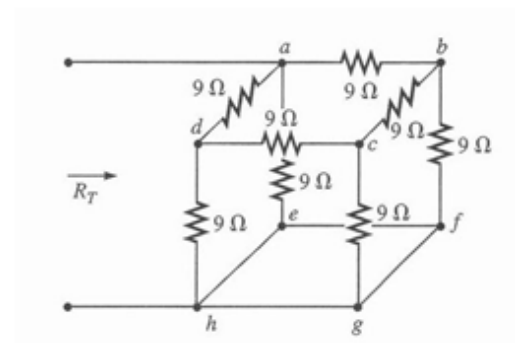


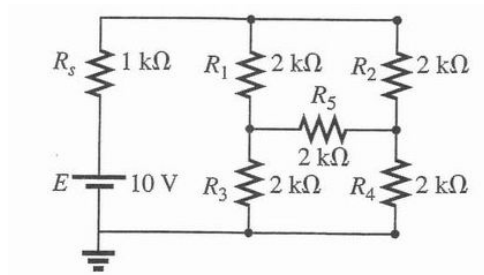
1. Find  $I$



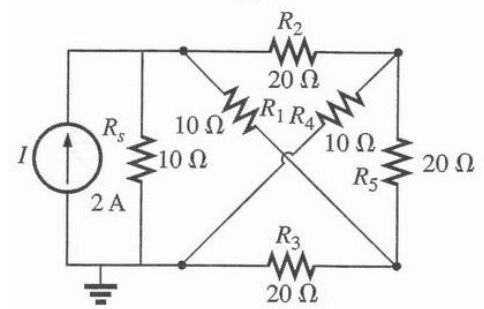
2. Find  $R_T$



3. Find the current through the  $R_5$

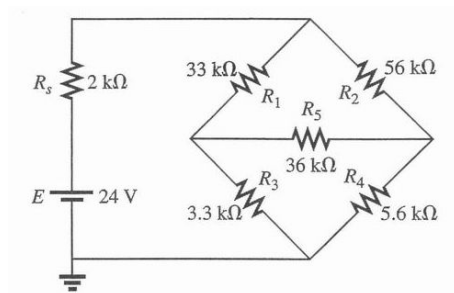


(a)

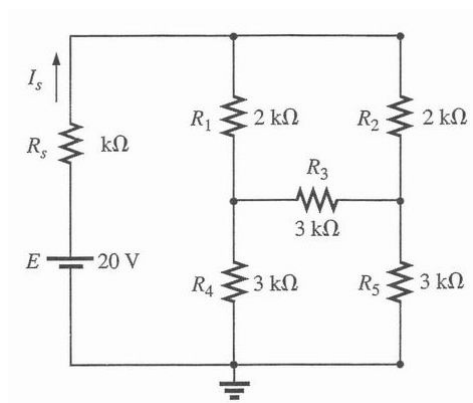


(b)

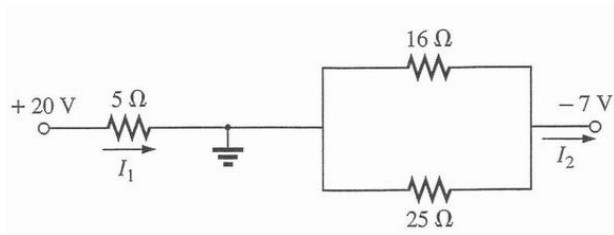
4. Find the current through the  $R_5$



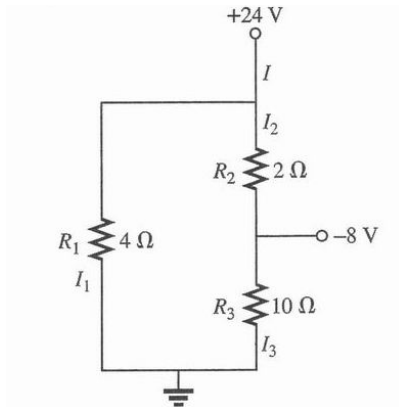
5. Find the  $I_s$



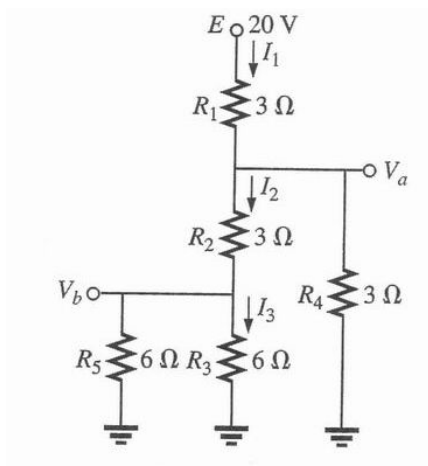
6. Find  $I_1$  and  $I_2$



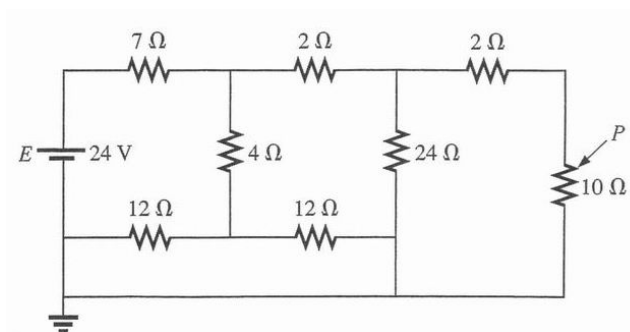
7. Find  $I$ ,  $I_1$ ,  $I_2$ ,  $I_3$



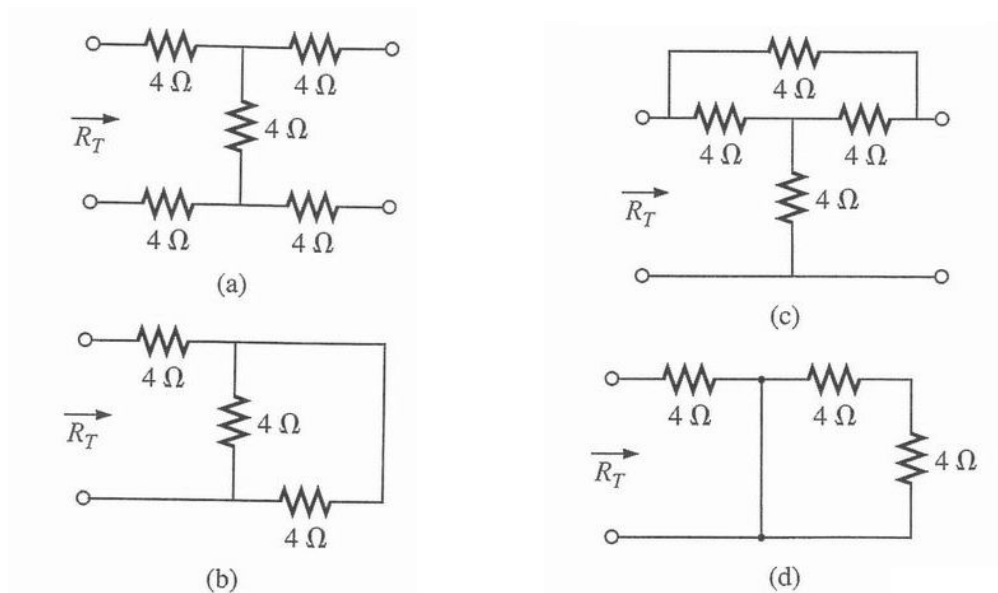
8. Find  $I_1$ ,  $I_2$ ,  $I_3$ ,  $V_a$ ,  $V_b$



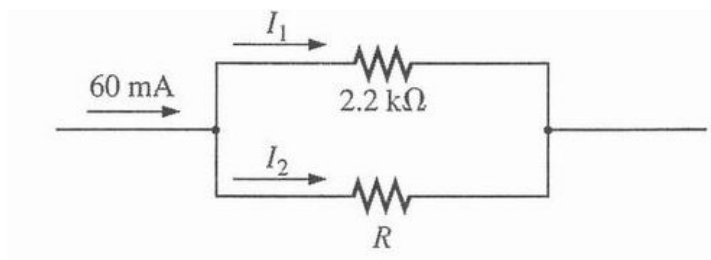
9. Find the power  $P$  from  $10\Omega$



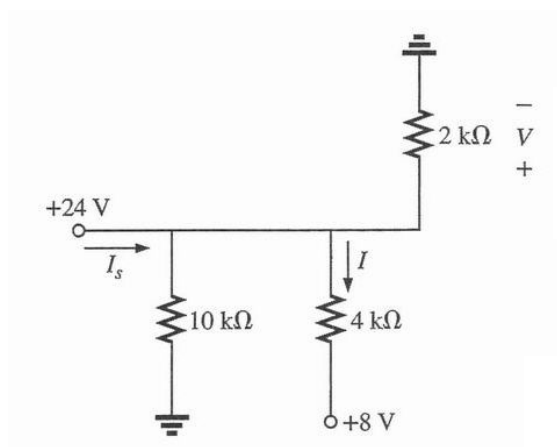
10. Find  $R_T$



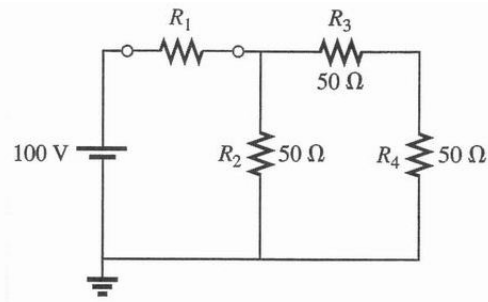
11. Find the  $R$  , If  $I_1 = 3I_2$



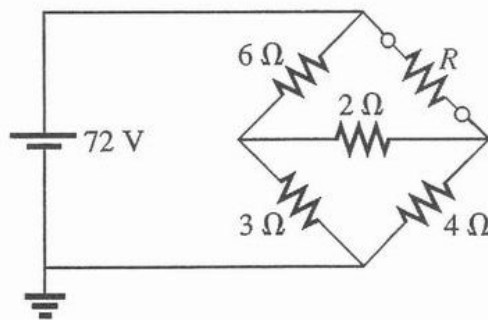
12. Find  $I$  ,  $I_s$  ,  $V$



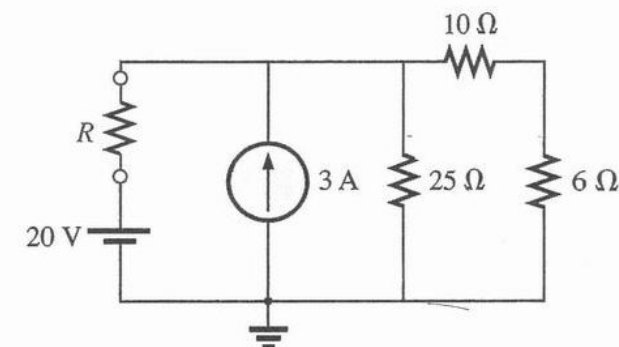
13. Find  $R_1$  such that the  $R_4$  will receive maximum power



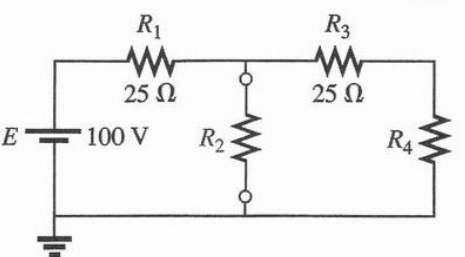
14. Find the current through R If  $R=5\ \Omega$



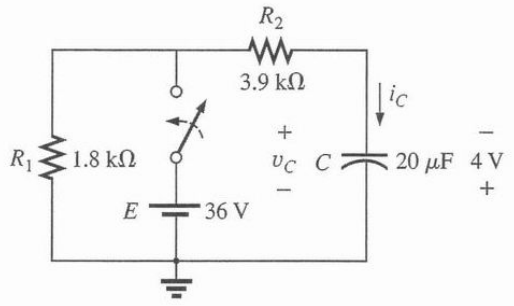
15. Find the current through R If  $R=5\ \Omega$



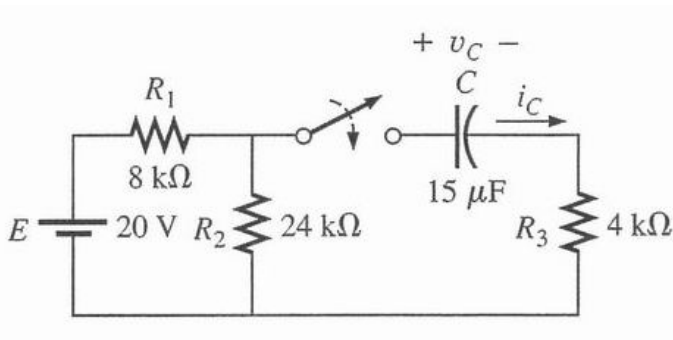
16. Find  $R_2$  such that the  $R_4$  will receive maximum power



17 The C is initially charged to 4V with the polarity shown. Write the mathematical expressions for the  $v_c$  and  $i_c$  when the switch is closed.

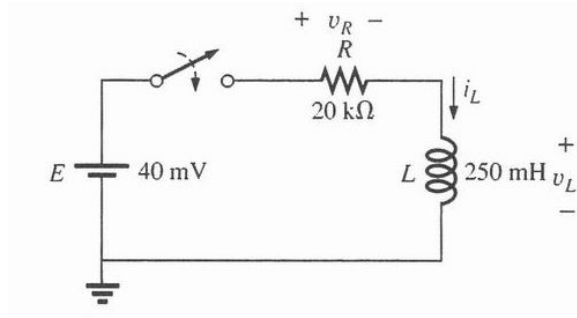


18. Find the mathematical expressions for the transient behavior of the  $v_C$  and  $i_C$  following the closed of the switch..



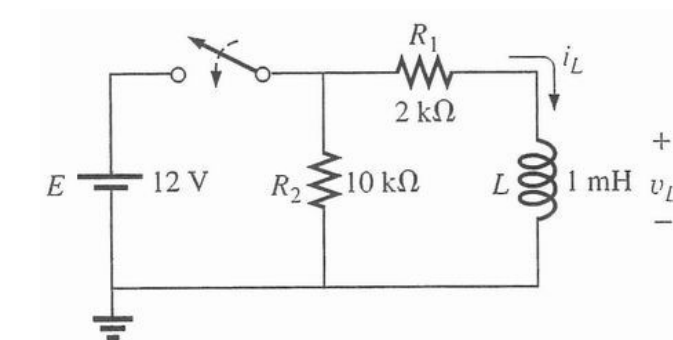
19.a. Determine the time constant.

b. Write the mathematical expressions for the  $v_L$  and  $i_L$  when the switch is closed.

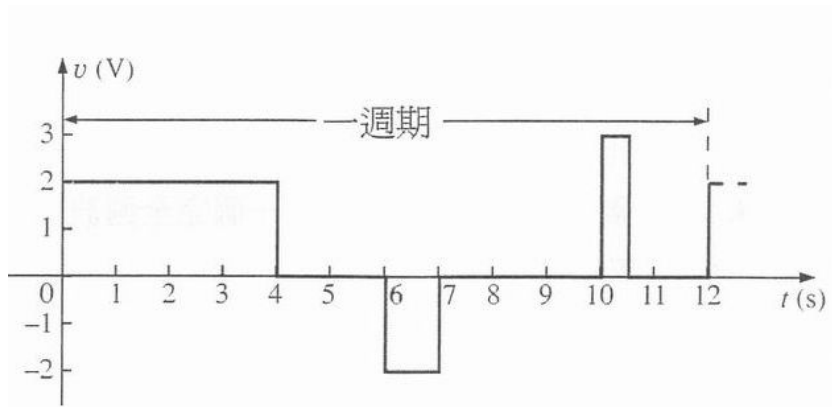


20. a. Determine the time constant.

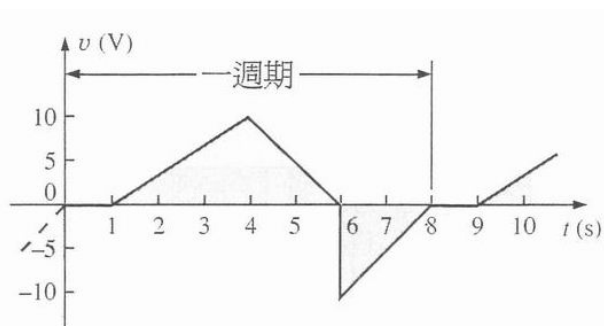
b. Write the mathematical expressions for the  $v_L$  and  $i_L$  when the switch is closed.



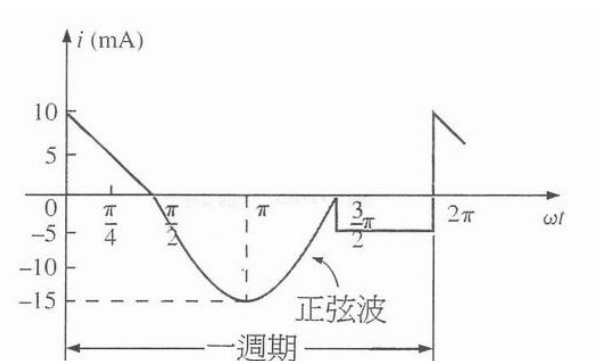
21. Find the rms value of the periodic waveform in Fig. over one full cycle.



22. Find the average value of the periodic waveform in Fig. over one full cycle.



(a)



(b)

23. Find the average value of the periodic waveform in Fig. over one full cycle.

