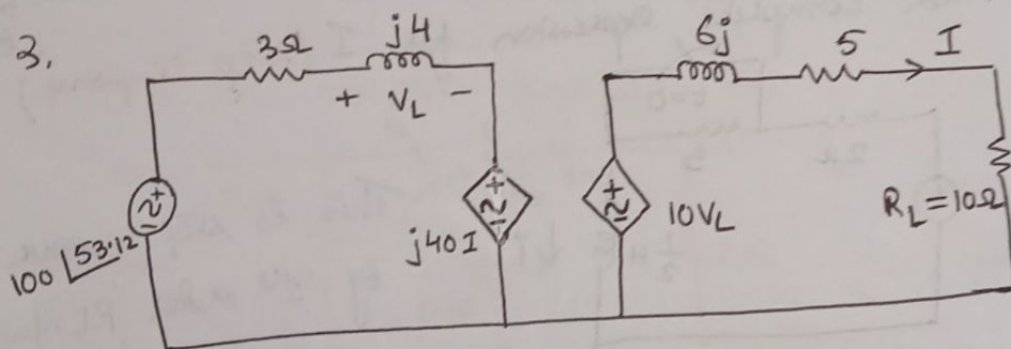
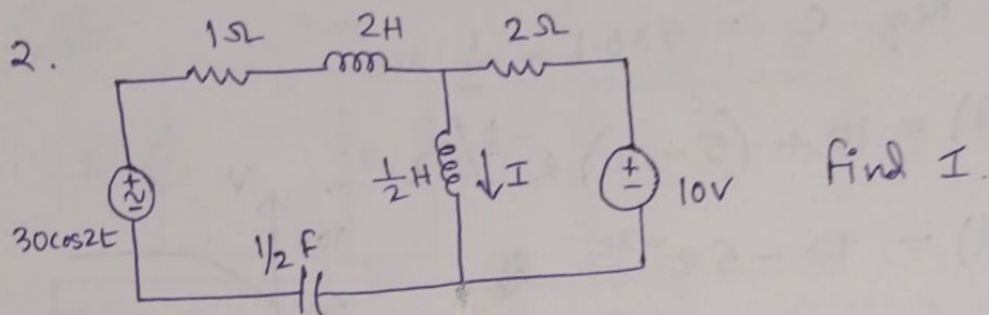
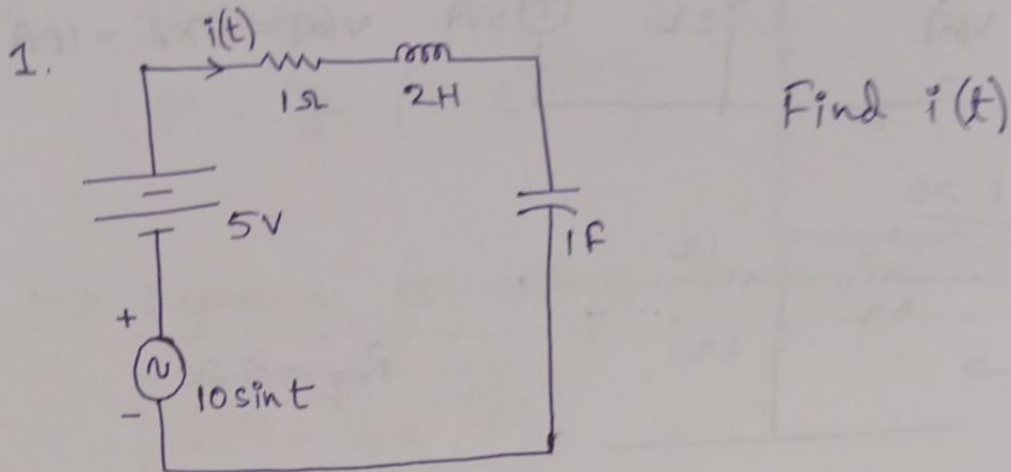
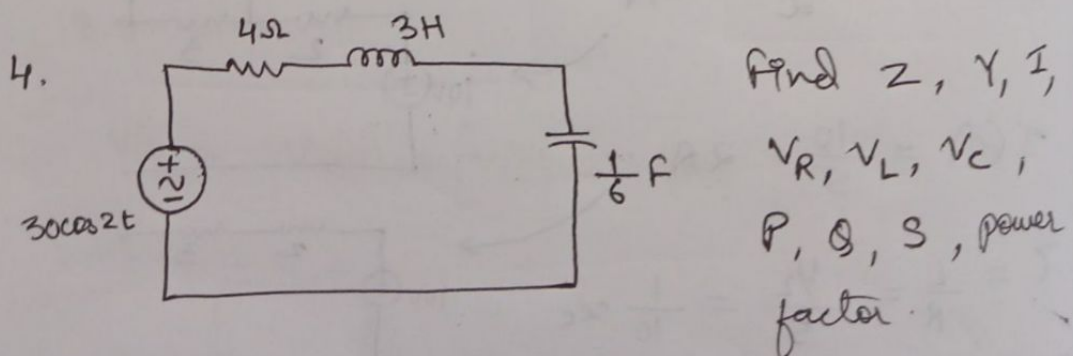


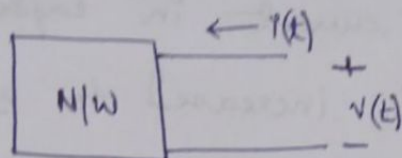
## MINOR 2 ASSIGNMENT



Find Thevenin equivalent voltage across the load.



5.

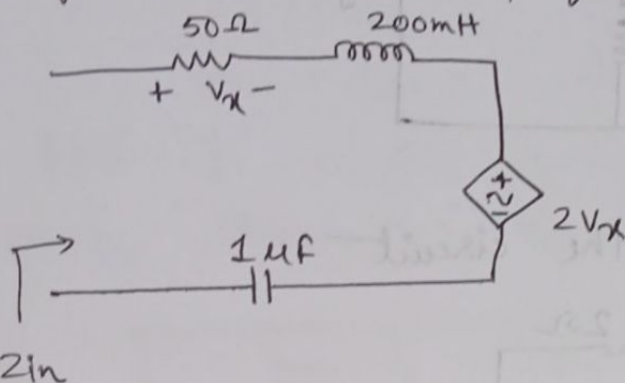


$$v(t) = 20 \cos(100t - 40^\circ)$$

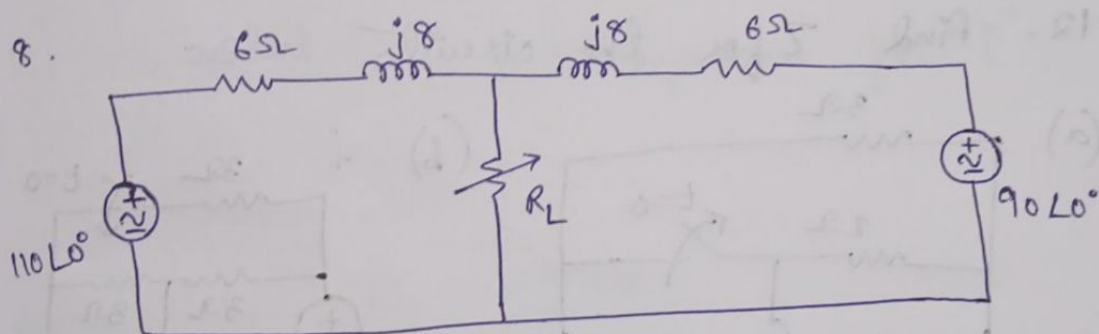
$$i(t) = 8 \sin(100t + 10^\circ)$$

Determine n/w elements.

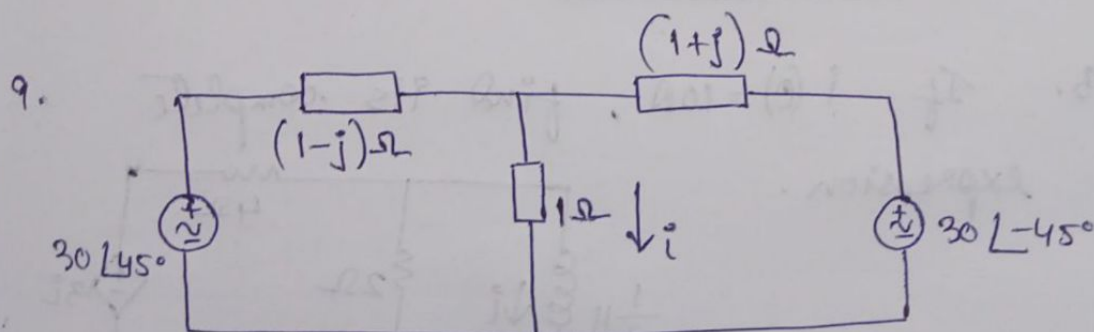
6. If  $\omega = 10 \text{ k rad/sec}$ , find  $Z_{in}$ .



7. If a current of  $i(t) = 5 \cos(1000t + 100^\circ) \text{ A}$  is flowing through an impedance of  $(4 + 3j) \Omega$  then average power is \_\_\_\_\_?

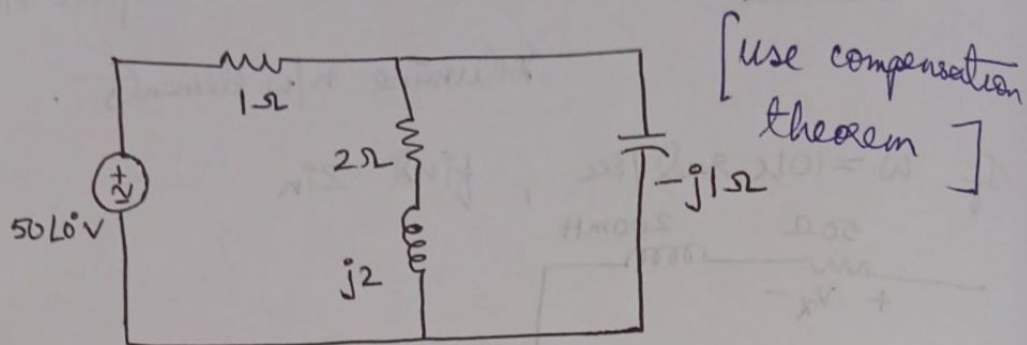


What is the maximum power transferred to the load?

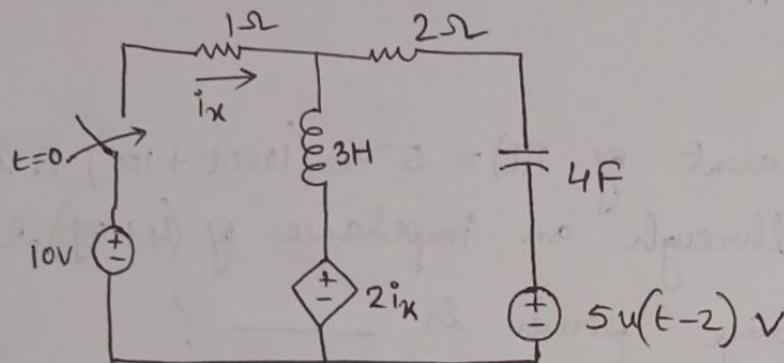


Find  $i$

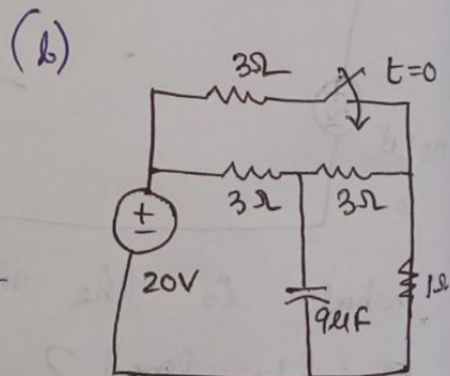
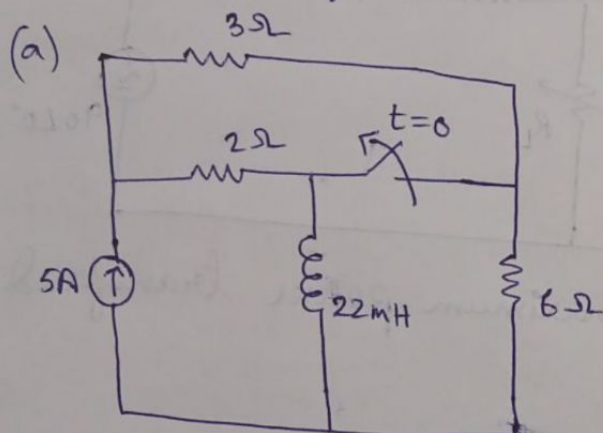
10. Find change in current in capacitor when  $1\Omega$  resistor is increased to  $3\Omega$ .



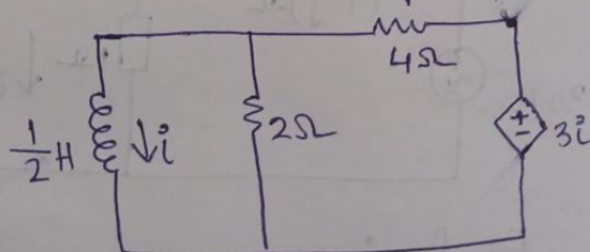
11. Find dual of the circuit



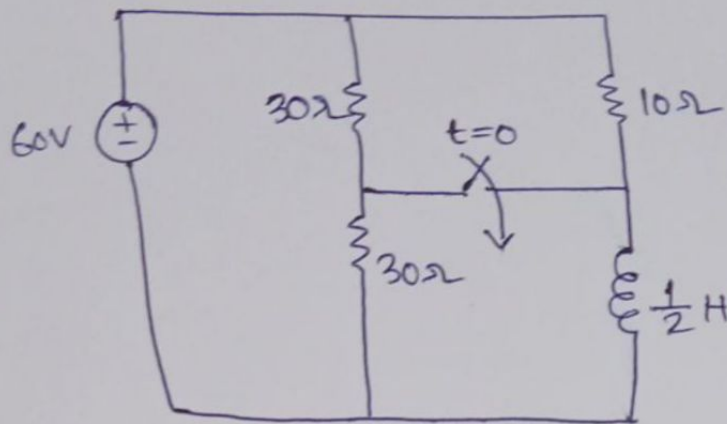
12. Find  $Z$  for the circuits below.



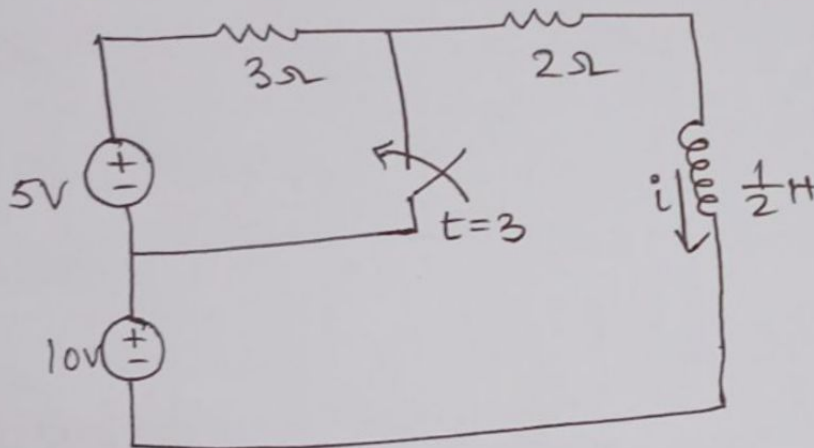
13. If  $i(0) = 10A$ , find its complete expression.



14. Find the complete expression for 'i'  
[step response]



15. Find the complete expression for  $i$  and the energy stored in inductor upto 3.25 sec.



16. Find the complete expression for 'i'.

