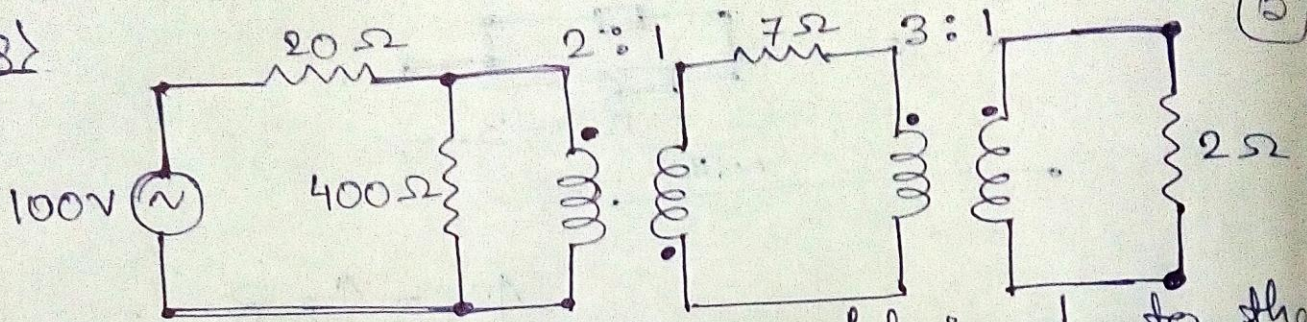


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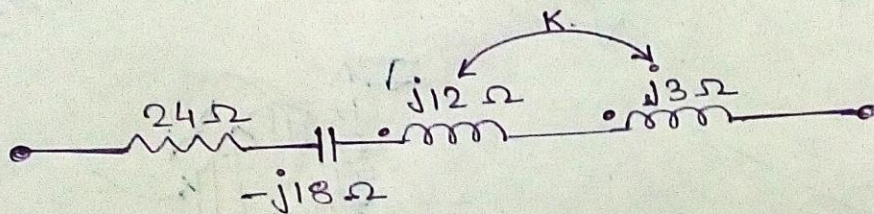
# LAB ASSIGNMENT

Q1



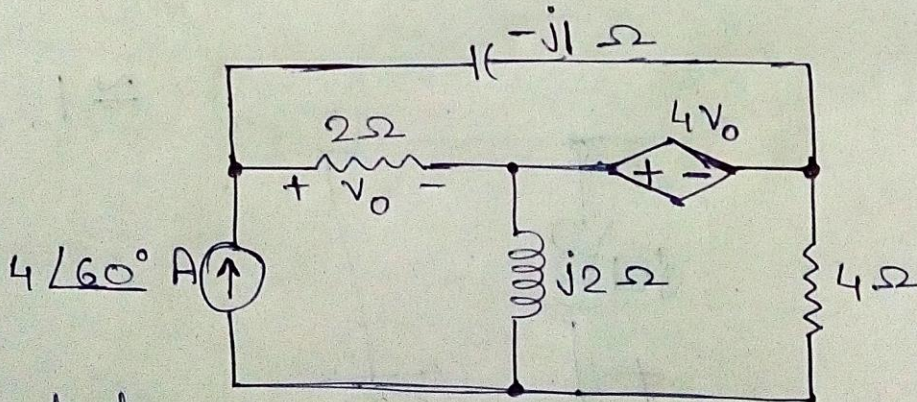
Find the average power delivered to the  $2\Omega$  resistor.

Q2



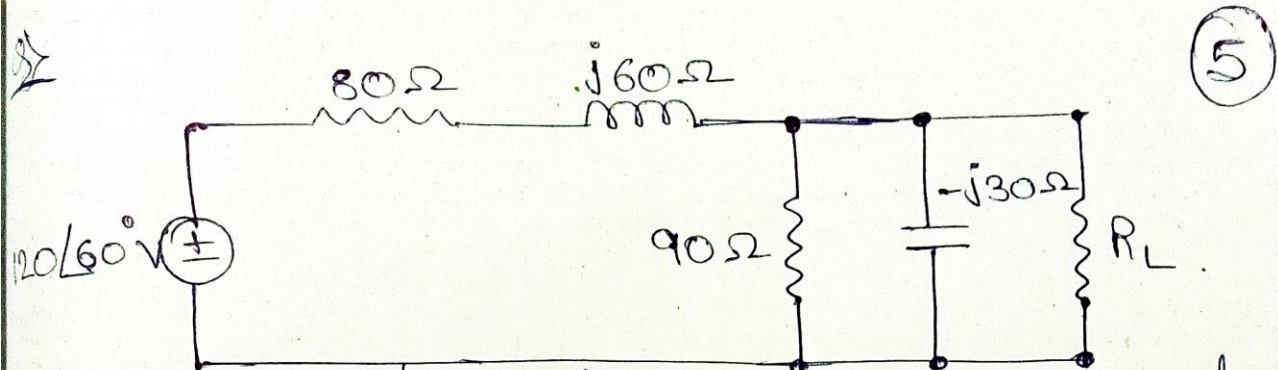
In the circuit for series resonance, find the value of coupling coeff.  $K$ .

Q3



Compute the average power absorbed by the  $2\Omega$  and  $4\Omega$  resistor in the circuit (manually). Plot the average power in LT Spice :-

- a) For  $2\Omega$  and  $4\Omega$  resistor
- b) Sweep the values of resistor from  $1\Omega$  to  $10\Omega$ .



calculate  $R_L$  and the maximum power absorbed by it when resistor ' $R_L$ ' is adjusted until it absorbs the maximum average power.

