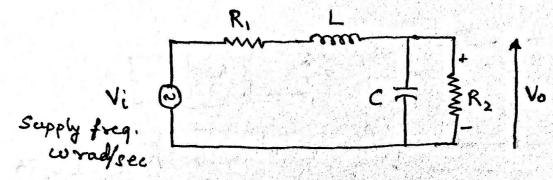
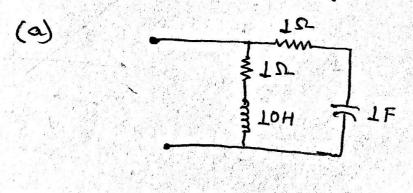
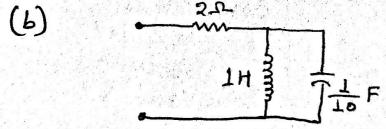
Tutorial-4

91- For the circuit shown below, find Vo

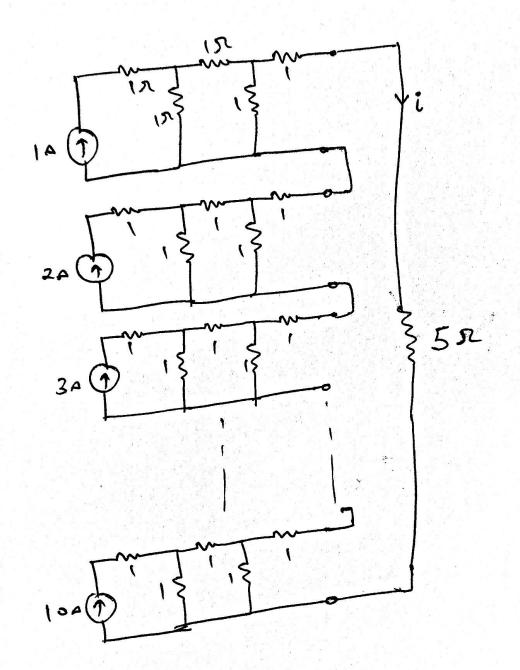


92- For the admittance shown in figure below, find the resonance frequency:





93 - Calculate the current i in the network shown below?



94- Find the network parameters Al B who under given conditions:

When $v_1=10V$, $i_1=RA$ and when $v_2=15V$, $v_2=11V$ v_1 v_2 $v_3=Av_1+Bi_1$

- Q5. An oscillating LC circuit consists of a 75.0 mH inductor and a 3.60 uF capacitor. If the maximum charge on the capacitor is 2.90uC,
- (a) what is the total energy in the circuit?
- (b) what is the maximum current?

O6. True / False

- a) Resistance in an RLC circuit will damp the Oscillations that are produced due to resonance
- b) In Series RLC Circuit, at Resonance Phase Angle will be 180°
- c) With increase in frequency Capacitive Reactance of the RLC circuit will increase
- d) Ideal Capacitors and Inductors does not dissipate energy
- e) In an RLC circuit, Current Amplitude at Resonant Condition is zero
- f) In a Series R-L Circuit, phase angle will be always positive
- g) As the frequency of RLC circuit increases, the circuit behaves as inductive
- h) Resonant Frequency is the frequency at which the impedance of the circuit is minimum