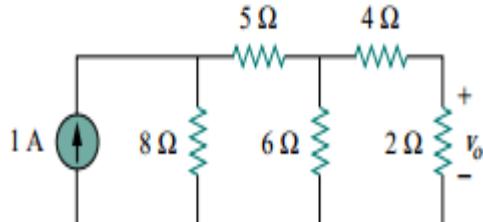
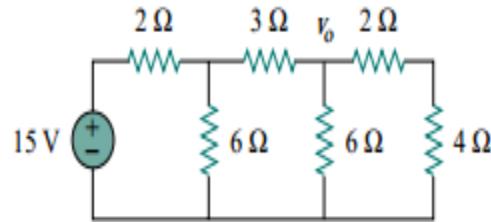


- Q1)** a) Find v_o in the circuit shown below. If the source current is reduced to $1\mu A$, what is v_o ?
 b) assume $v_o = 1V$, and use linearity to find the actual value of v_o .

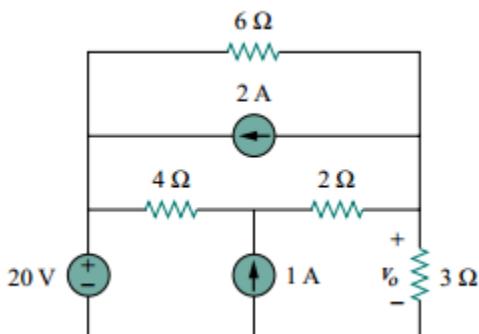


-a-

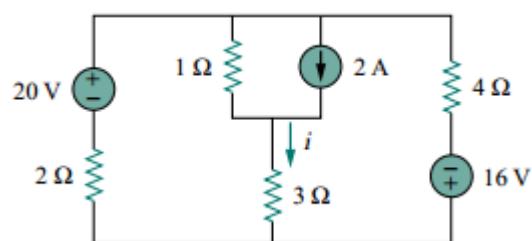


-b-

- Q2)** a) Apply the superposition principle to find v_o in the circuit
 b) Use superposition to find i . Calculate the power delivered to the 3Ω resistor.

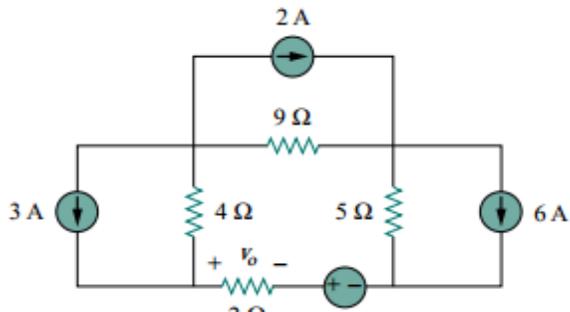


-a-

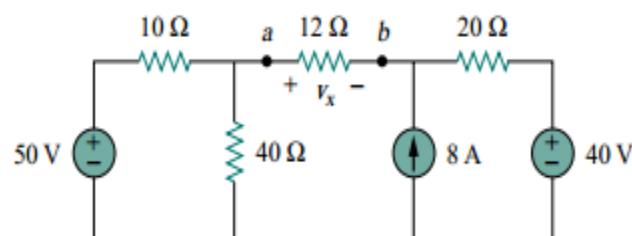


-b-

- Q4)** a) Obtain v_o in the circuit using source transformation
 b) Apply source transformation to find v_x in the circuit



-a -



- b -