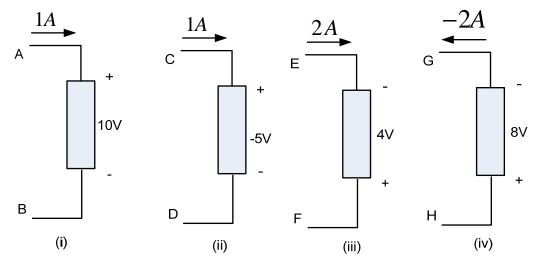
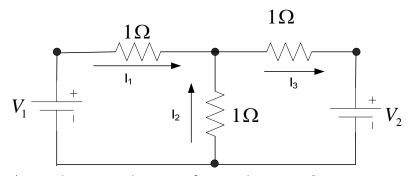
Extra Practice Questions

1) For the elements given below:

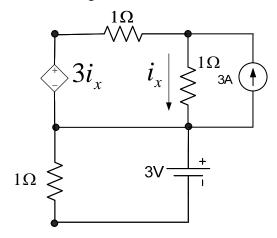


- a) State for which elements is Passive sign convention followed?
- b) Find the power associated with the each element.
- c) Which elements are passive?
- d) For each element, name the terminal that is at a higher voltage.
- 2) For the figure,



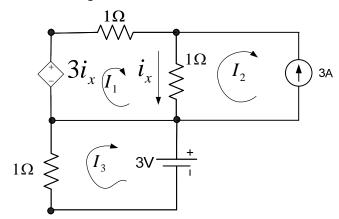
- a) Are the current directions for I2 and I3 correct?
- b) Can we conclude if the voltage source V2 is taking power or giving power before solving the circuit?
- c) If I1=-3A, I2=4A, find I3.
- d) If V1=10V, find V2.

3) In the circuit given,



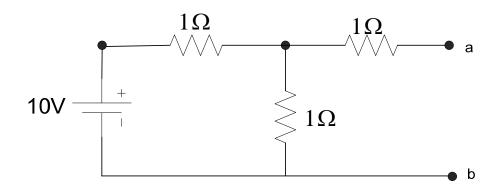
Use node voltage analysis to solve the circuit. Find the value of current $\, \dot{l}_{x} \, .$

4) In the circuit given,

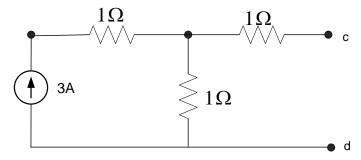


- a) Find the values of I1, I2 an I3.
- b) Find the value of $\boldsymbol{\dot{l}}_{\scriptscriptstyle X}$.
- c) What is the power associate with the current source?

5) In the circuit given, Find the Thevenin equivalent between terminals a and b.



6) Find the Norton equivalent of the circuit between points c and d.



7) Find the Thevein equivalent of the circuit between terminals e and f.

