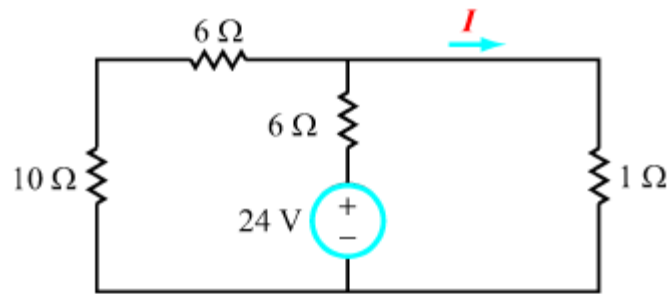
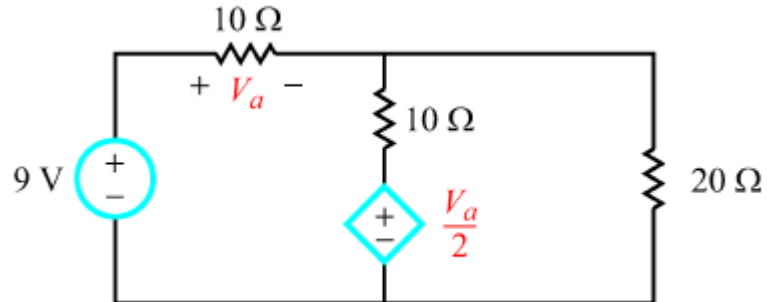


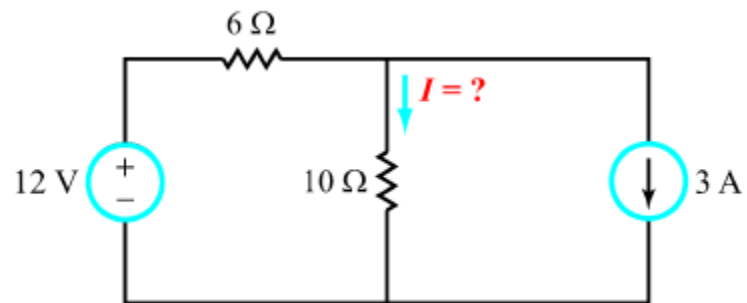
1. Apply Nodal analysis to determine the current “I”.



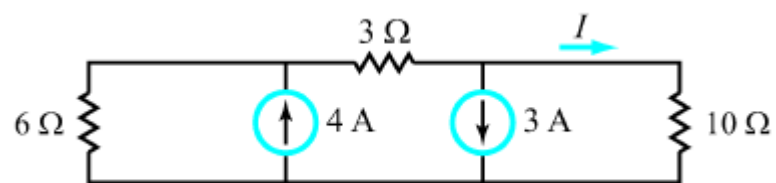
2. Apply Nodal analysis to find “ $V_a$ ”.



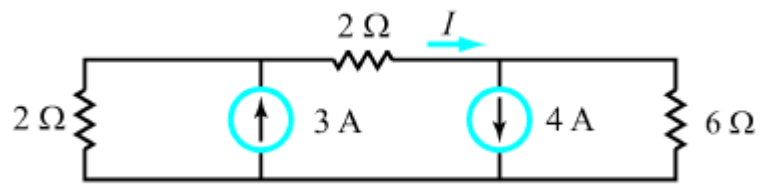
3. Apply mesh analysis to determine “I”.



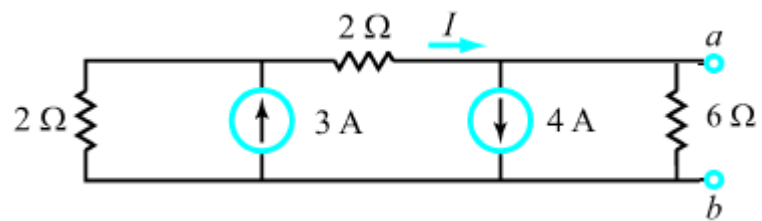
4. Apply mesh analysis to determine “I”.



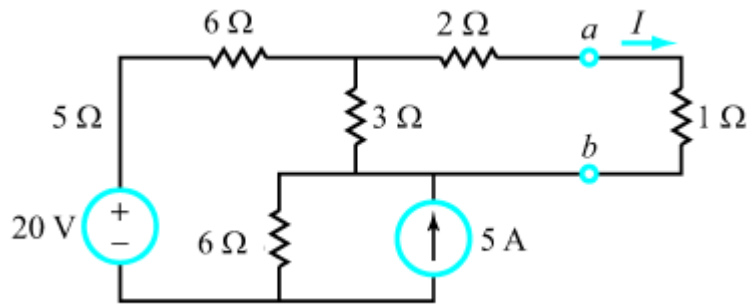
5. Apply the source-superposition method to determine the current “ $I$ ”.



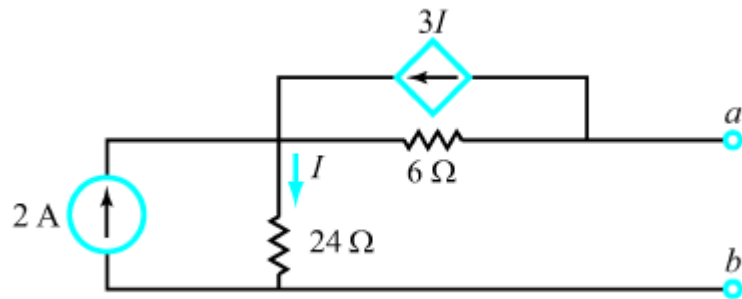
6. Determine the Thevenin-equivalent circuit at terminals (a,b).



7. Determine the Thevenin equivalent of the circuit to the left of terminal (a,b) and then determine “I”.



8. Find the Norton equivalent at terminals (a,b) .



9. Choose a value for  $R_L$  such that maximum power is delivered to  $R_L$ . If  $R=5$  how much power is delivered to  $R_L$ ?

