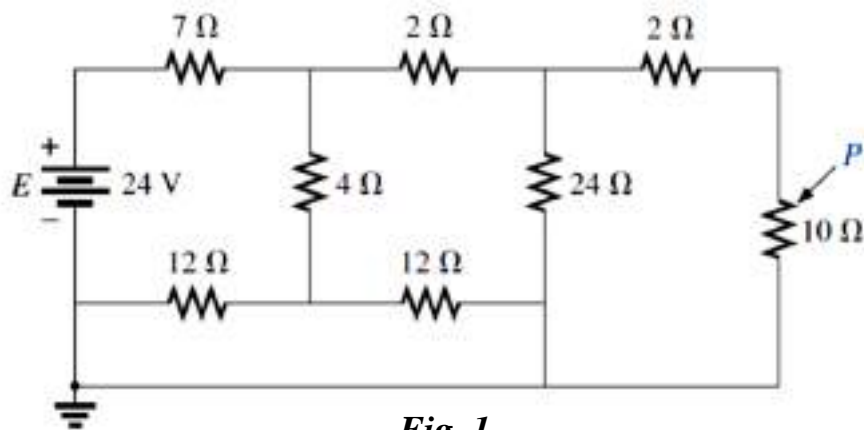
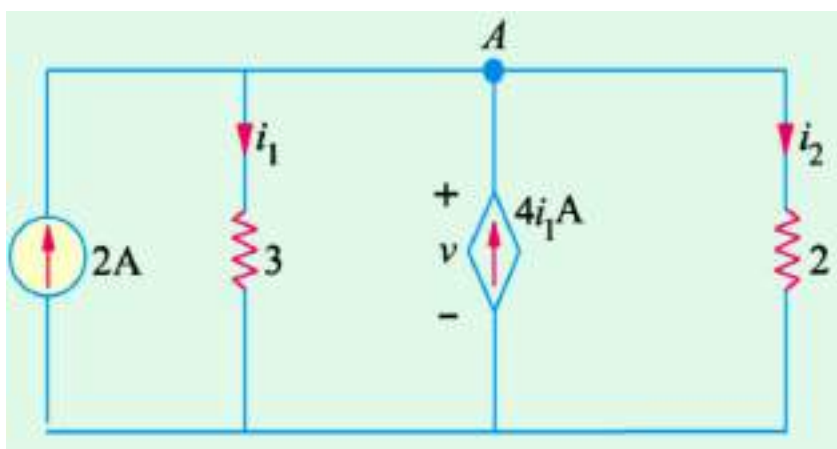


**Q1– Determine the power delivered to the  $10\ \Omega$  load in Fig. 1.**



**Fig. 1**

**Q2 – In the circuit of Fig. 2. Find the values of the currents  $i_1$ ,  $i_2$  and current-dependent current source. All resistances are in ohms.**



**Fig. 2**

**Q3 – An aluminium wire 5 m long and 2 mm diameter is connected in parallel with a copper wire 3 m long. The total current is 4 A and that in the aluminium wire is 2.5 A. Find the diameter of the copper wire. The respective resistivities of copper and aluminium are  $1.7$  and  $2.6\ \mu\Omega\text{-m}$ .**