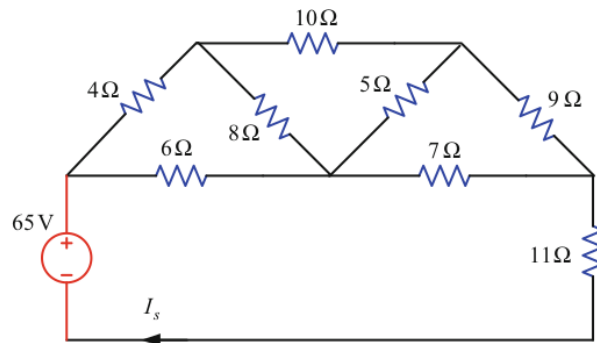
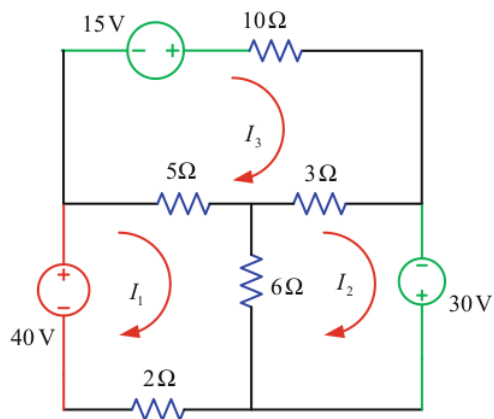


## PH3104 Problem Set 1

**Q 1)** Use Kirchhoff's laws to find the current  $I_s$  in the circuit below:



**Q 2)** Use Maxwell's mesh method to find the currents through each of the resistors in the circuit below



**Q 3)** Use Norton's method to find the four indicated currents in the circuit below

