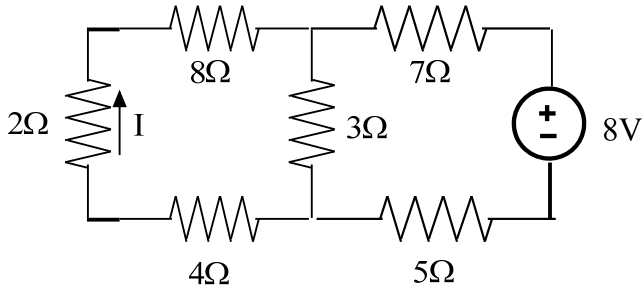
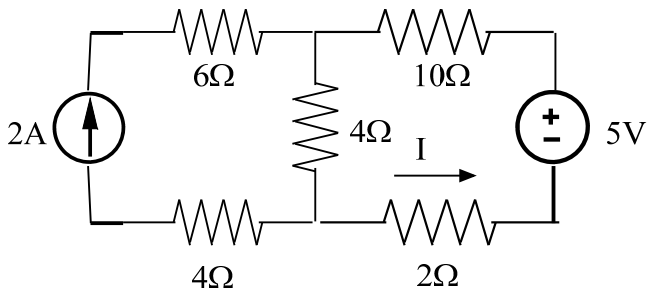


EE201 Practice Problems-A

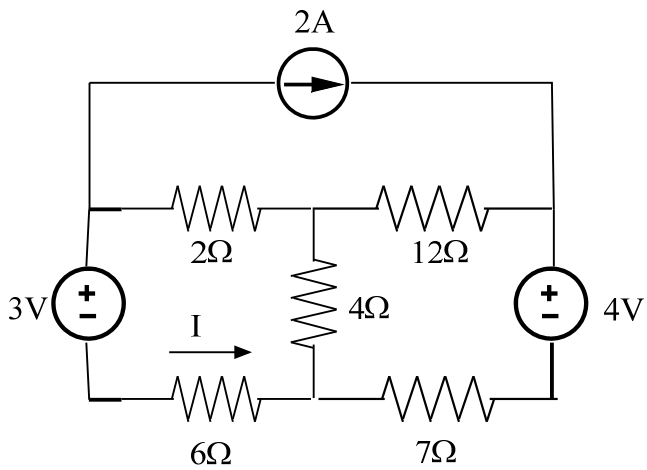
1. For each of the circuits, find the current I by loop analysis method.



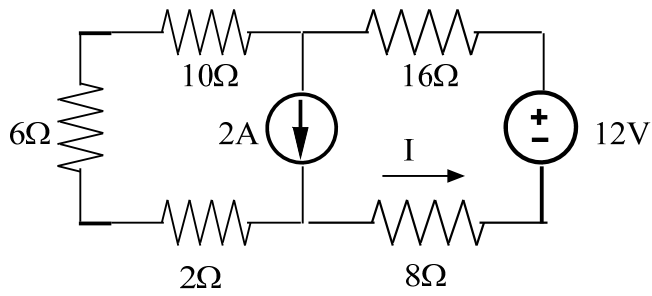
(a)



(b)

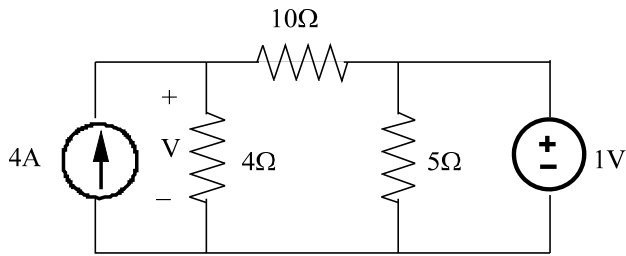


(c)

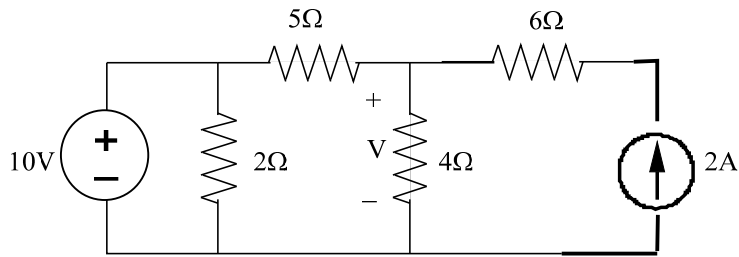


(d)

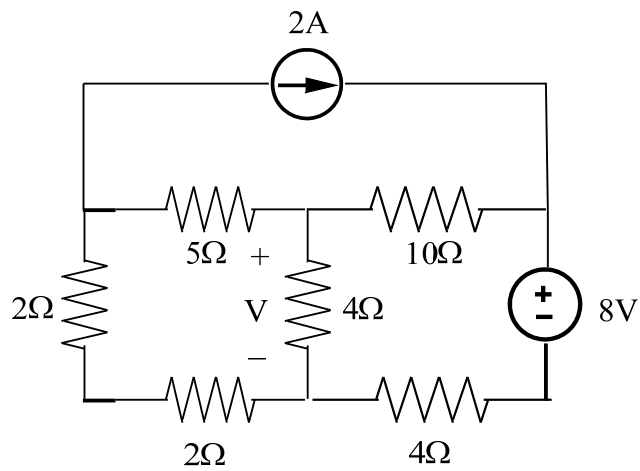
2. For each of the circuits, find the voltage V by nodal analysis method.



(a)

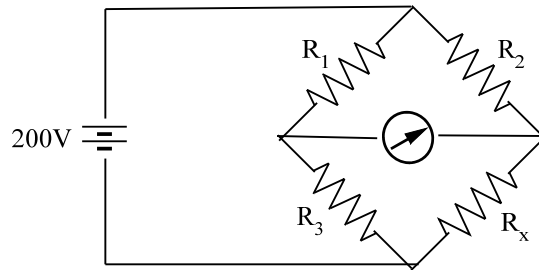


(b)

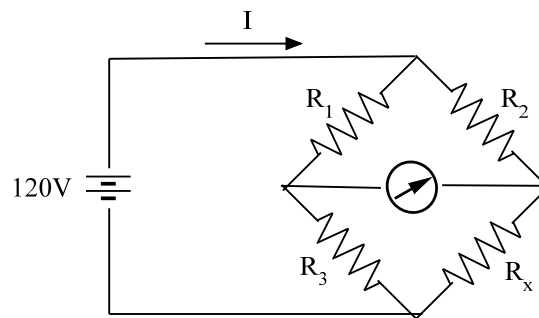


(c)

3. The bridge circuit shown below is energized from a 200V source. The bridge is balanced when $R_1 = 800\Omega$, $R_2 = 600\Omega$ and $R_3 = 800\Omega$. What is the value of R_x ?



4. The bridge circuit shown below is energized from a 120V source. The bridge is balanced when $R_1 = 400\Omega$, $R_2 = 300\Omega$ and $R_3 = 400\Omega$. What is the value of the current I when the bridge is balanced?



5. The bridge circuit shown below is energized from a 120V source. The bridge is balanced when $R_1 = 600\Omega$, $R_2 = 400\Omega$ and $R_3 = 300\Omega$. What is the value of the current I when the bridge is balanced?

