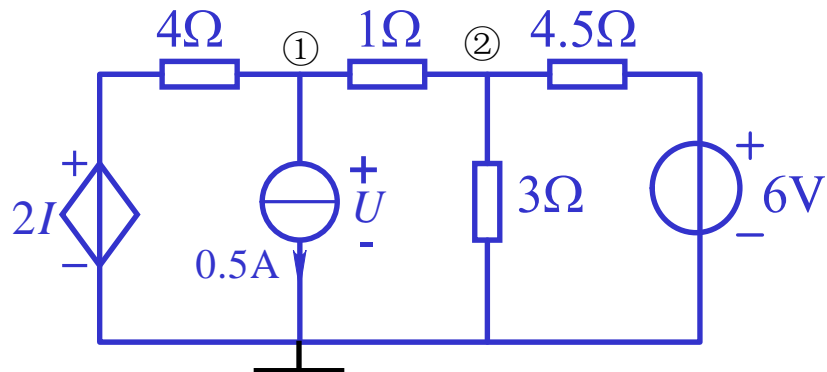
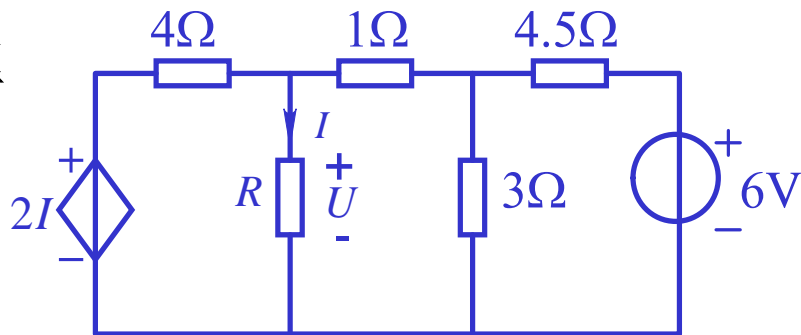


置换定理

例3 已知 $I=0.5\text{A}$ ，求电阻 R 。

解



$$\left\{ \begin{aligned} \left(\frac{1}{4\Omega} + \frac{1}{1\Omega} \right) U_{n1} - \frac{1}{1\Omega} U_{n2} &= \frac{2I}{4\Omega} - 0.5\text{A} \end{aligned} \right.$$

$$I = 0.5\text{A}$$

$$\left\{ \begin{aligned} -\frac{1}{1\Omega} U_{n1} + \left(\frac{1}{1\Omega} + \frac{1}{3\Omega} + \frac{1}{4.5\Omega} \right) U_{n2} &= \frac{6\text{V}}{4.5\Omega} \end{aligned} \right.$$

$$\Rightarrow U_{n1} = 1\text{V}$$