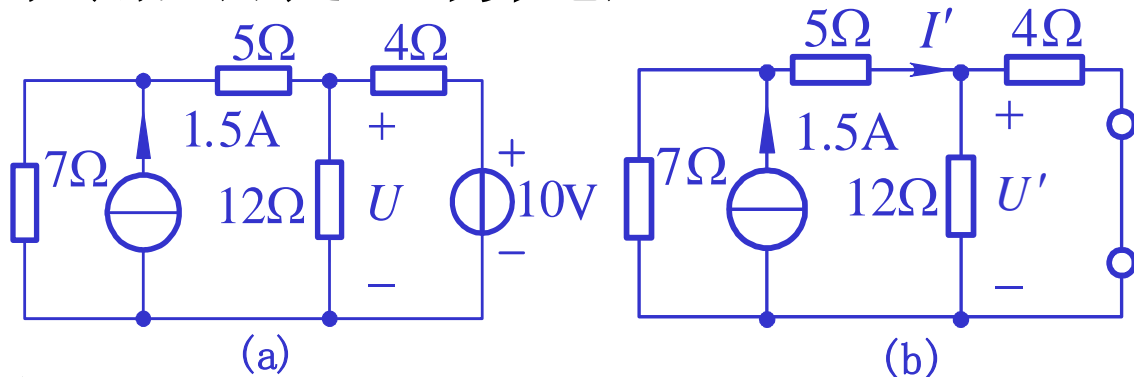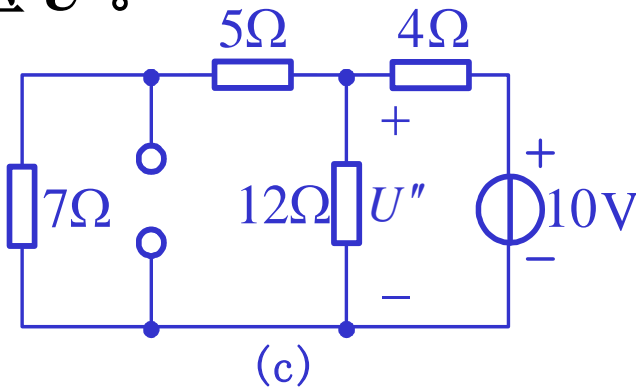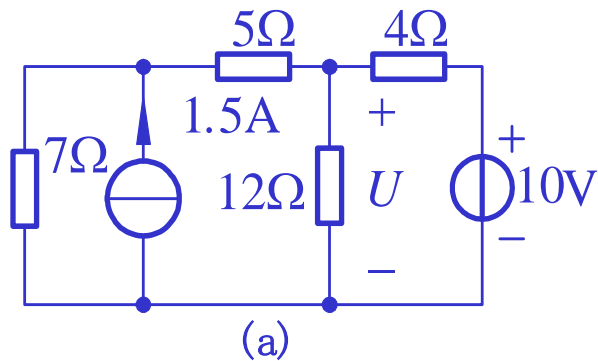例1 用叠加定理计算电压 U 。

(a)　　　　　　　(b)

解：

$$I' = \frac{7\Omega \times 1.5\text{A}}{(4 /\!/ 12)\Omega + (5+7)\Omega} = 0.7\text{A}$$

$$U' = (4 /\!/ 12)\Omega \times I' = 2.1\text{V}$$

例1 用叠加定理计算电压 U 。

(a)

(c)

解：

$$U'' = \frac{(5+7)//12}{(5+7)//12+4} \times 10\text{V} = 6\text{V}$$

$$U' = (4//12)\Omega \times I' = 2.1\text{V}$$

$$U = U' + U'' = 8.1\text{V}$$