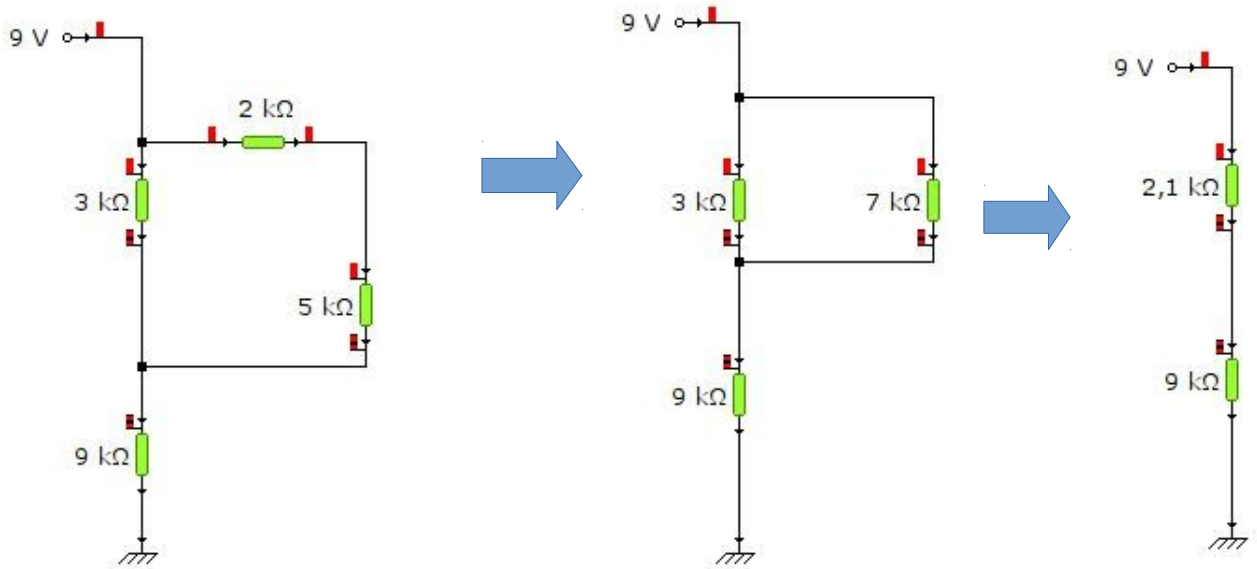


## Combinational circuits.

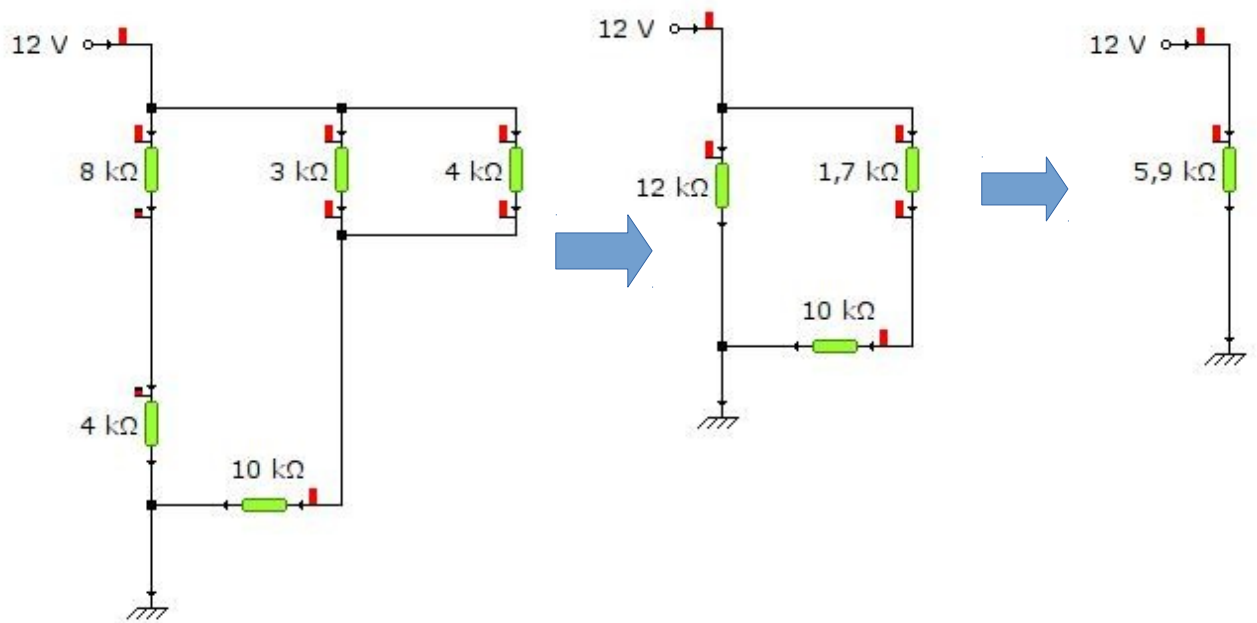
How to calculate the equivalent resistance?. And then, current and power.

### Example 1



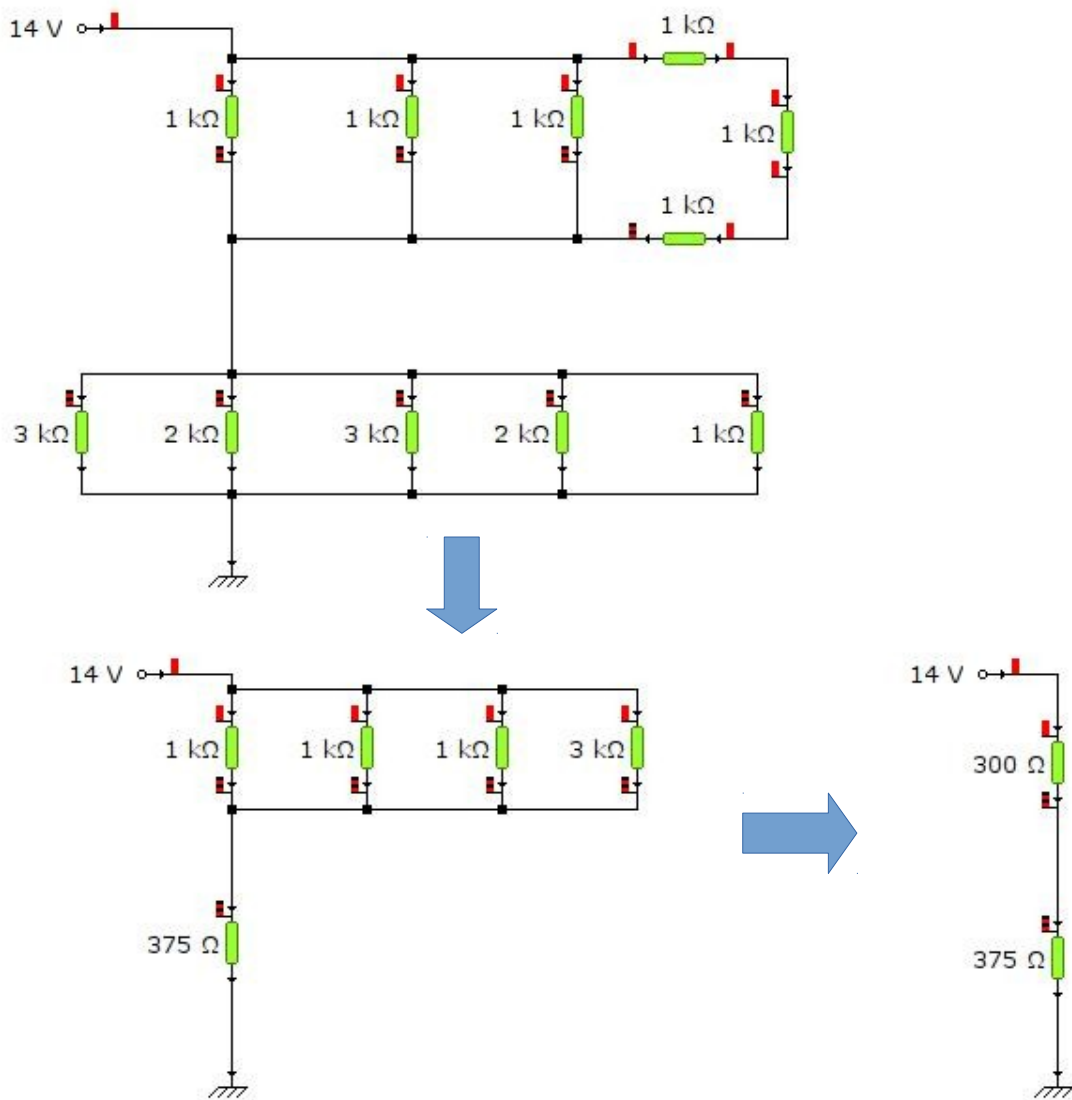
$$I = \frac{V}{R} = \frac{9V}{11,1k\Omega} = 0,81mA \quad P = VI = 9V \cdot 0,81mA = 7,29mW$$

### Example 2



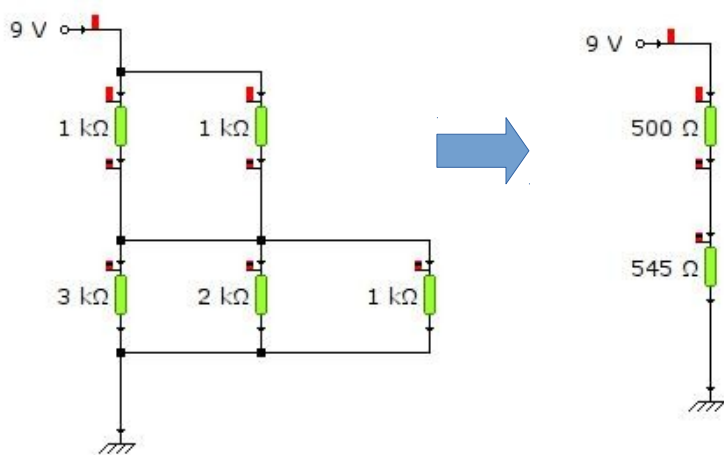
$$I = \frac{v}{R} = \frac{12V}{5,9k\Omega} = 2,03mA \quad P = VI = 12V \cdot 2,03mA = 24,36mW$$

### Example 3



$$I = \frac{v}{R} = \frac{14V}{675\Omega} = 20,74 \text{ mA} \quad P = VI = 14V \cdot 20,74\text{mA} = 290,37\text{mW}$$

### Example 4



$$I = \frac{V}{R} = \frac{9V}{1045\Omega} = 8,6\text{mA}$$

$$P = VI = 9V \cdot 8,6\text{mA} = 77,4\text{mW}$$