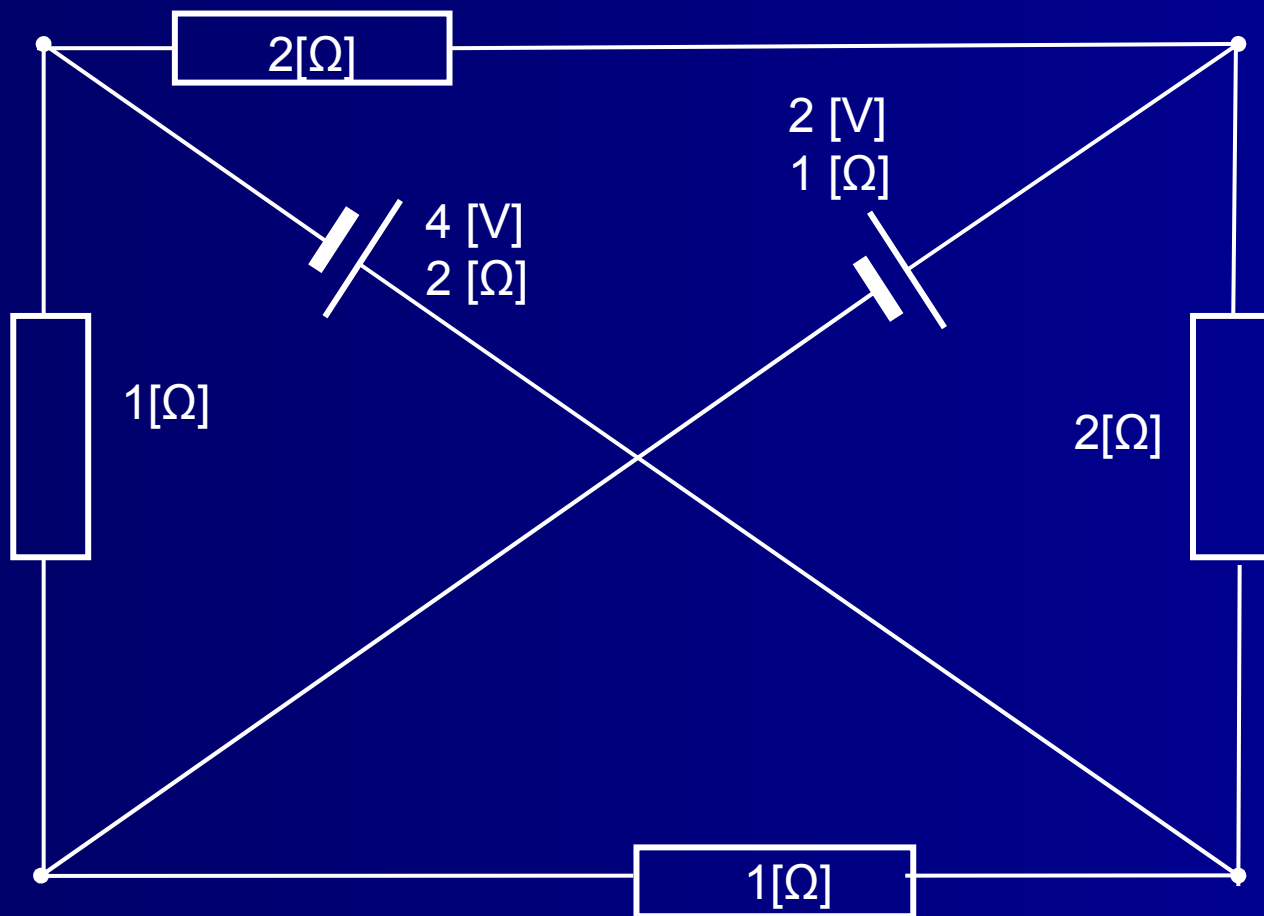
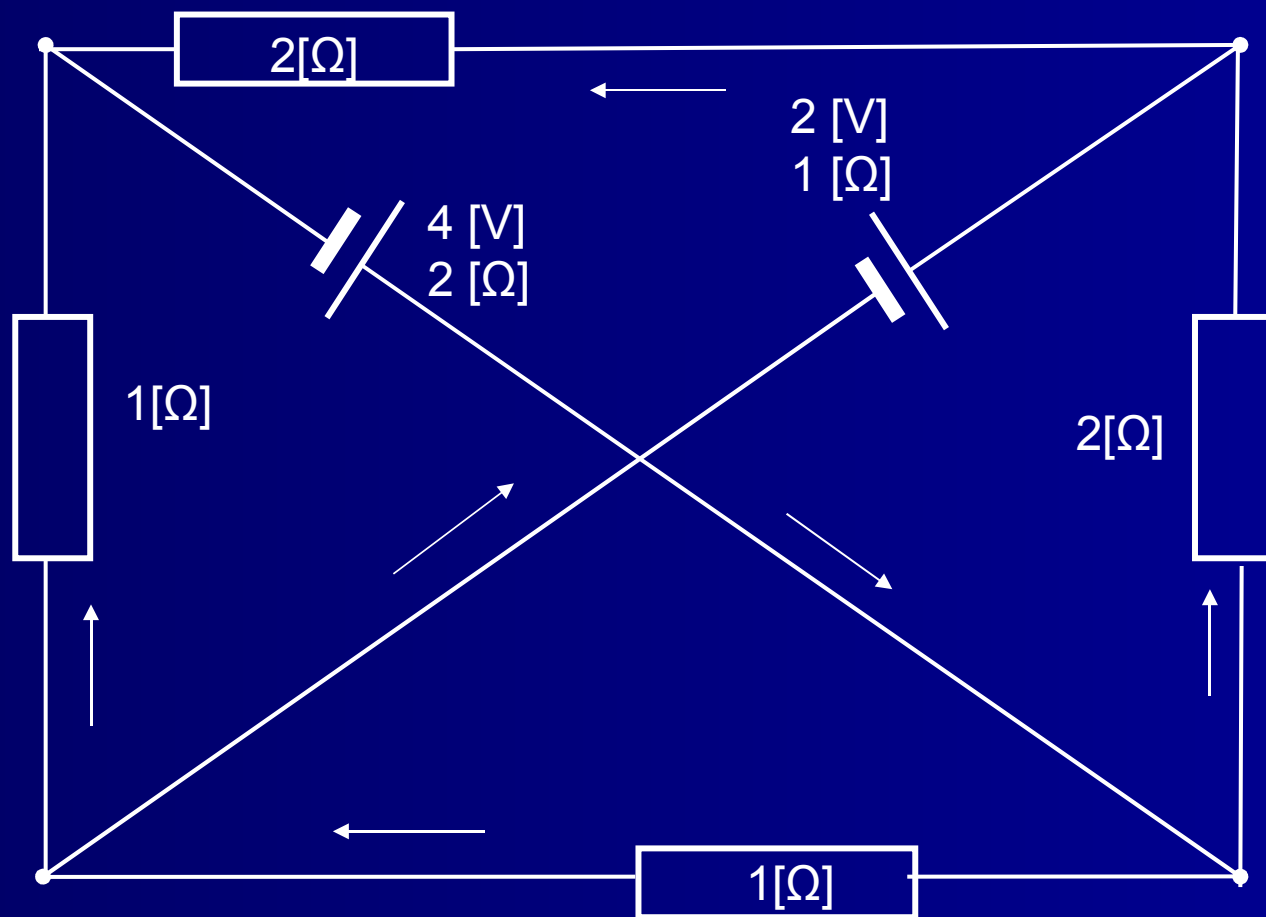


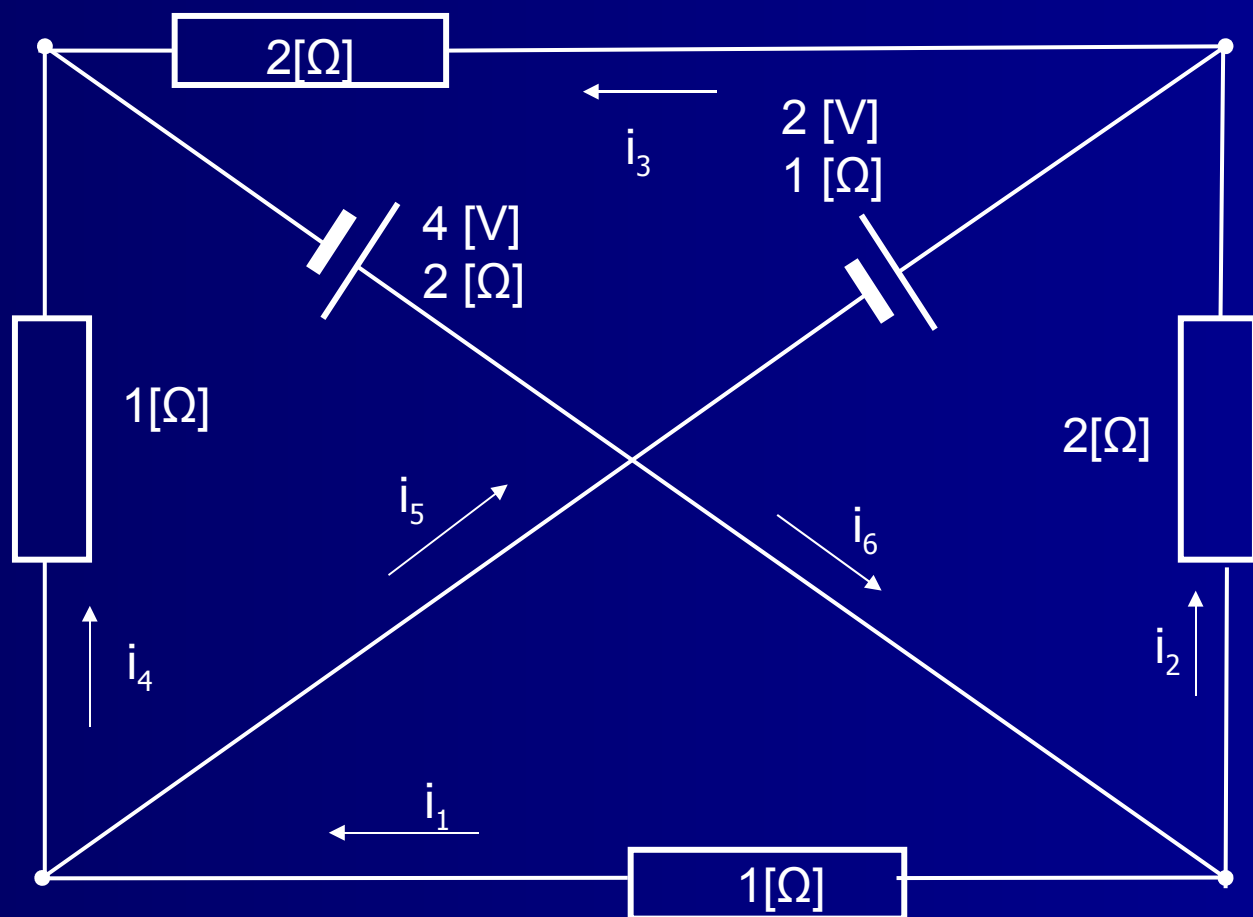
Ćwiczenie 7



Ćwiczenie 7

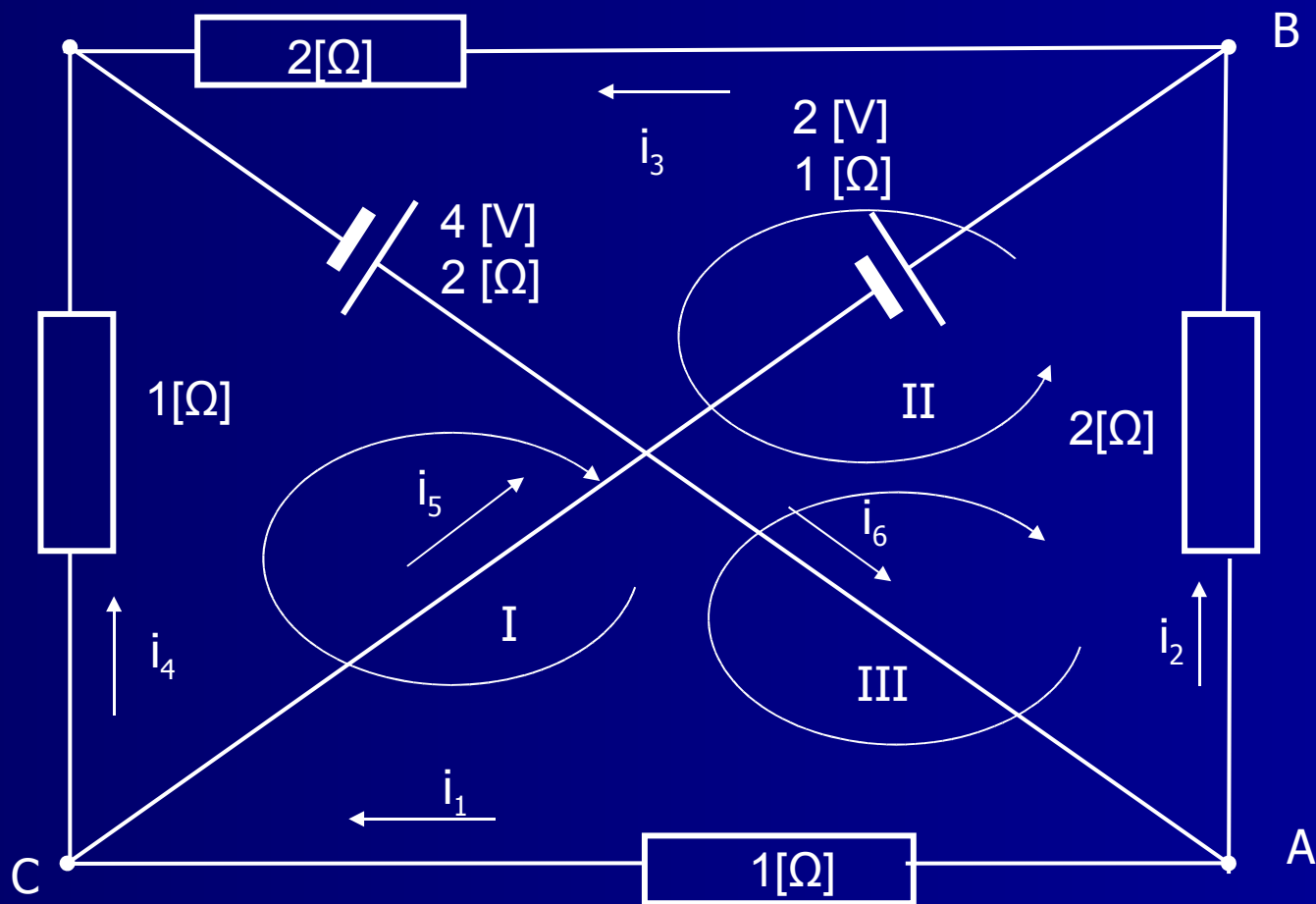


Ćwiczenie 7



$$\begin{aligned}
 R &= R_1 = R_4 = R_{w5} = 1[\Omega] \\
 2R &= R_2 = R_3 = R_{w6} \\
 \varepsilon &= \varepsilon_5 = 2[\text{V}] \\
 2\varepsilon &= \varepsilon_6
 \end{aligned}$$

Ćwiczenie 7



Ćwiczenie 7

$$\begin{array}{ll} (A) & i_6 = i_1 + i_2 \quad (I) \quad 2\varepsilon = 2Ri_6 + Ri_1 + Ri_4 \\ (B) & i_3 = i_2 + i_5 \quad (II) \quad 2\varepsilon = 2Ri_6 + 2Ri_2 + 2Ri_3 \\ (C) & i_1 = i_5 + i_4 \quad (III) \quad \varepsilon = Ri_5 - 2Ri_2 + Ri_1 \end{array}$$

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$$2\frac{\varepsilon}{R} = 2i_1 + 2i_2 + i_1 - i_5 + i_1$$

$$2\frac{\varepsilon}{R} = 4i_1 + 2i_2 - i_5$$

$$2\frac{\varepsilon}{R} = 2i_1 + 2i_2 + 2i_2 + 2i_5 + 2i_2$$

$$2\frac{\varepsilon}{R} = 2i_1 + 6i_2 + 2i_5$$

$$\frac{\varepsilon}{R} = i_5 + i_1 - 2i_2$$

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$$i_5 = \frac{\varepsilon}{R} - i_1 + 2i_2$$

$$2\frac{\varepsilon}{R} = 4i_1 + 2i_2 + i_1 - 2i_2 - \frac{\varepsilon}{R} \qquad 3\frac{\varepsilon}{R} = 5i_1$$

$$2\frac{\varepsilon}{R} = 2i_1 + 6i_2 - 2i_1 + 4i_2 + 2\frac{\varepsilon}{R} \qquad 0 = 10i_2$$

Ćwiczenie 7

$$i_2 = 0$$

$$i_1 = \frac{3\varepsilon}{5R} = \frac{6[V]}{5[\Omega]} = 1,2[A]$$

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$$i_5 = \frac{2[V]}{1[\Omega]} - 1,2[A] = 0,8[A]$$

$$i_3 = 0,8[A]$$

$$i_4 = 1,2[A] - 0,8[A] = 0,4[A]$$

$$i_6 = 1,2[A]$$

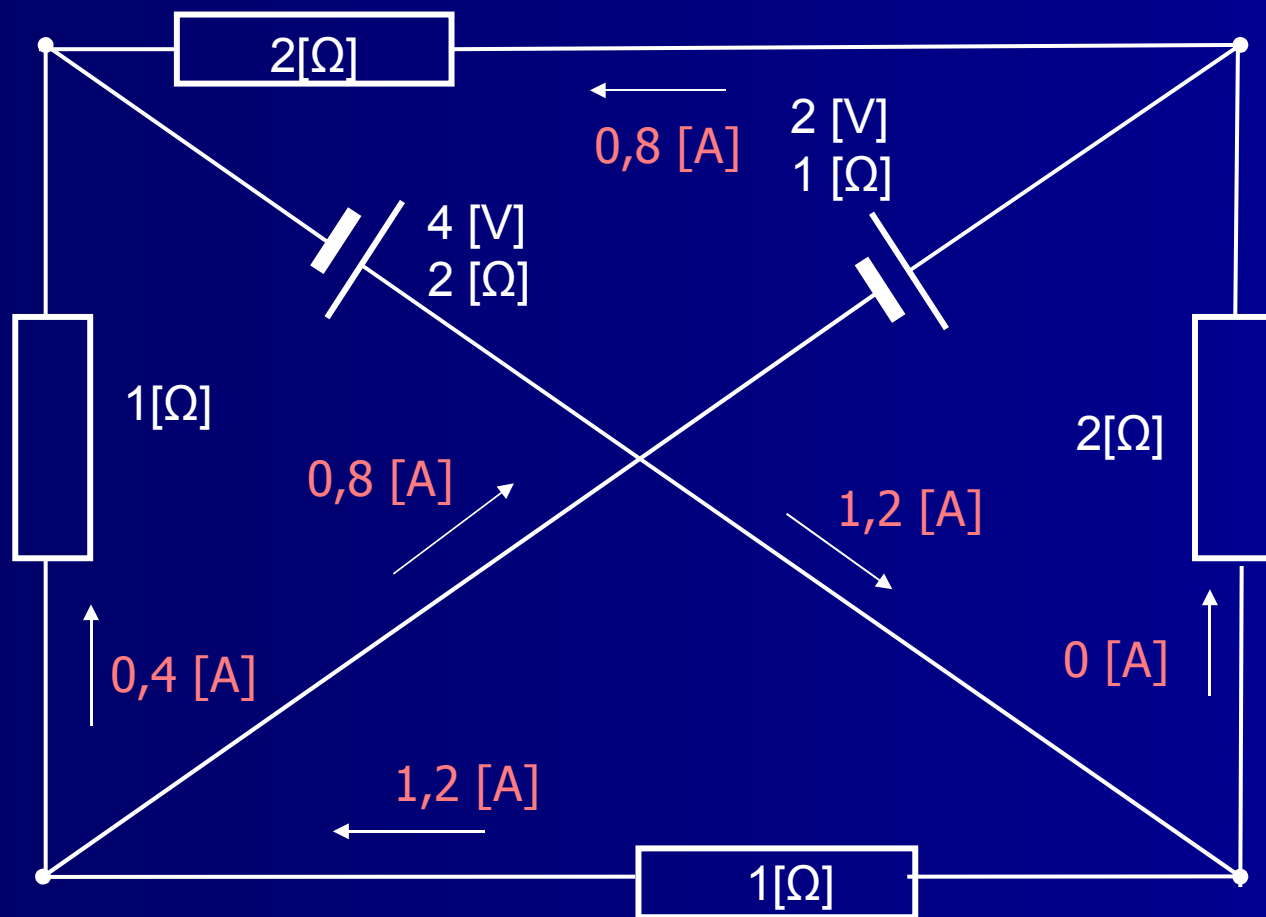
Ćwiczenie 7

$$(I) \quad 2 \frac{2[V]}{1[\Omega]} = 4[A] \quad 2 \bullet 1,2[A] + 1,2[A] + 0,4[A] = 4[A]$$

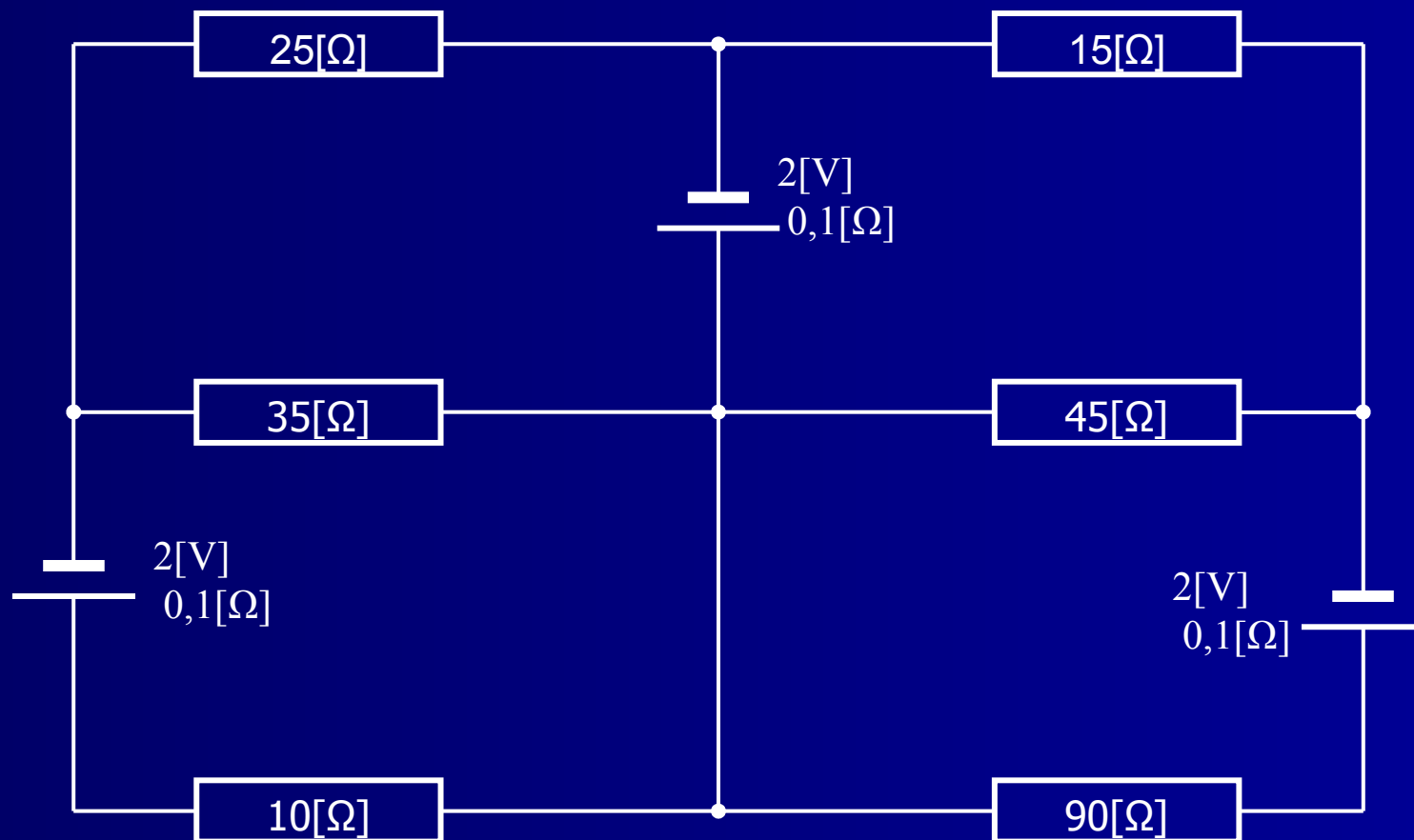
$$(II) \quad 2 \frac{2[V]}{1[\Omega]} = 4[A] \quad 2 \bullet 1,2[A] + 2 \bullet 0 + 2 \bullet 0,8[A] = 4[A]$$

$$(III) \quad \frac{2[V]}{1[\Omega]} = 2[A] \quad 0,8[A] - 2 \bullet 0 + 1,2[A] = 2[A]$$

Ćwiczenie 7



Ćwiczenie 7



Ćwiczenie 7

