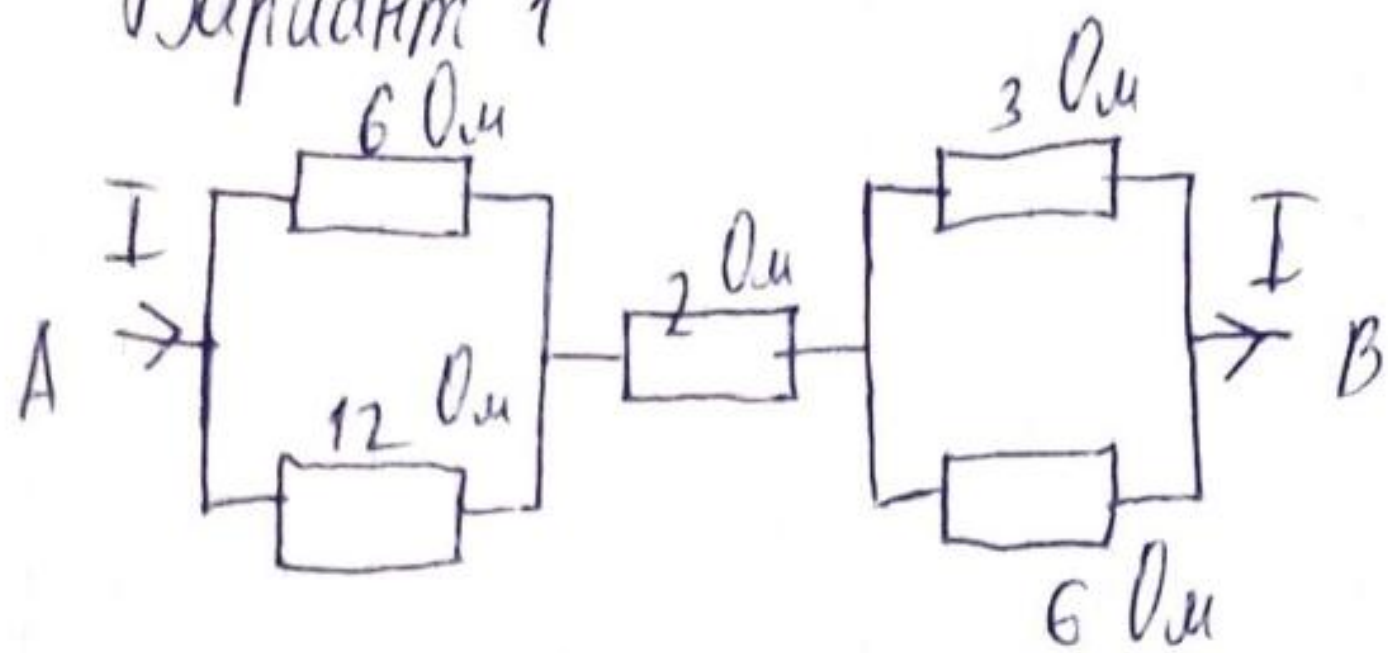


Вариант 1



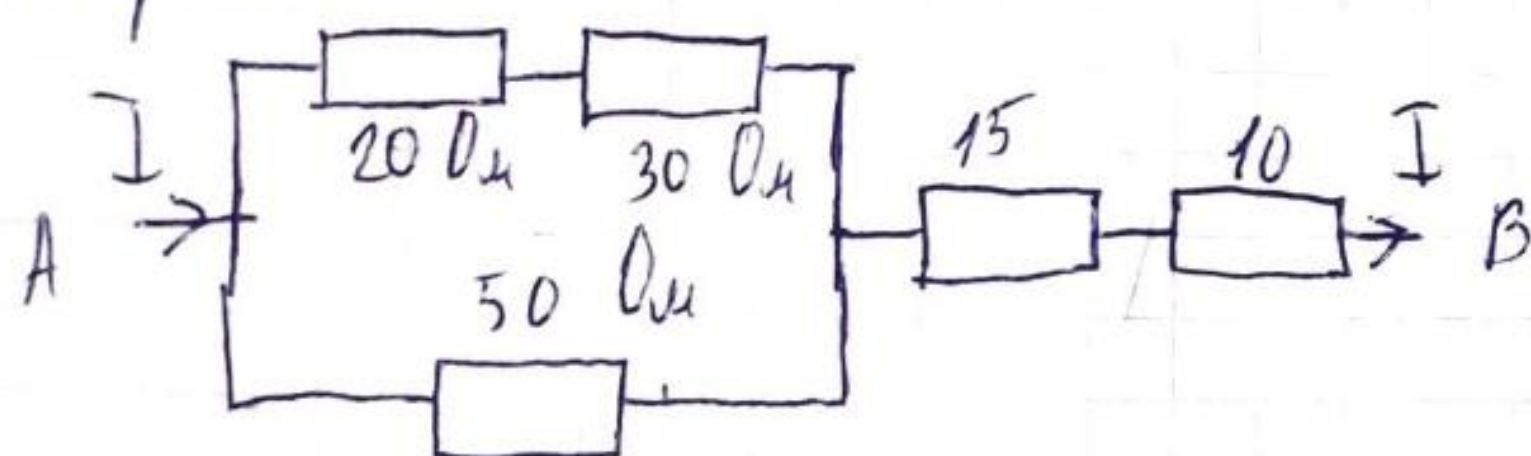
$$R_{12} = \frac{6 \cdot 12}{18} = 4 \text{ Ohm}$$

$$R_{45} = \frac{3 \cdot 6}{9} = 2 \text{ Ohm}$$

$$R = R_{12} + R_3 + R_{45} = 4 + 2 + 2 = 8 \text{ Ohm}$$

$$I = \frac{U_{AB}}{R} = 6 \text{ A}$$

Вариант 3



$$R_{12} = 20 + 30 = 50 \text{ Ohm}$$

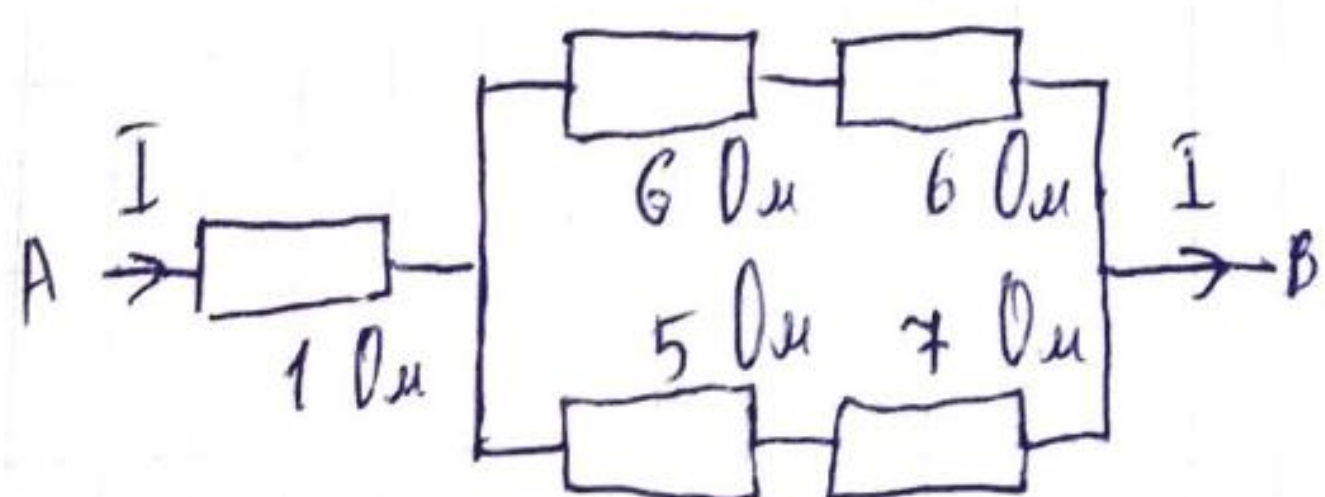
$$R_{45} = 15 + 10 = 25 \text{ Ohm}$$

$$R_{123} = \frac{50 \cdot 50}{100} = 25 \text{ Ohm}$$

$$R = R_{123} + R_{45} = 50 \text{ Ohm}$$

$$\frac{U_{AB}}{R} = I = 2 \text{ A}$$

Вариант 4



$$R_{23} = 6 + 6 = 12 \text{ Ohm}$$

$$R_{45} = 5 + 7 = 12 \text{ Ohm}$$

$$R_{2345} = \frac{12 \cdot 12}{24} = 6 \text{ Ohm}$$

$$R = R_1 + R_{2345} = 7 \text{ Ohm}$$

$$\frac{U_{AB}}{R} = I = 6 \text{ A}$$