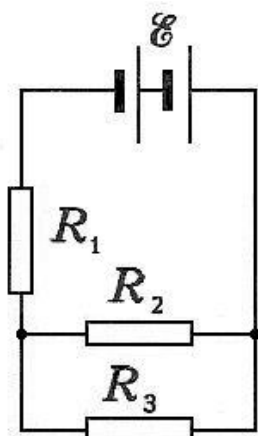


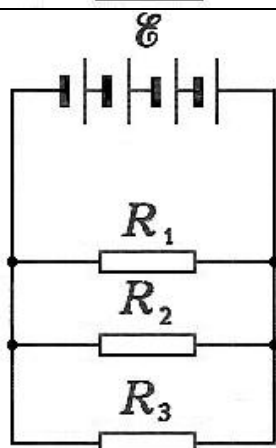
Вариант 1



$\mathcal{E}_3 = 4,5 \text{ В}$ $r_3 = 0,5 \text{ Ом}$
 $R_1 = 3 \text{ Ом}$ $R_2 = 10 \text{ Ом}$
 $R_3 = 15 \text{ Ом}$

$\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$

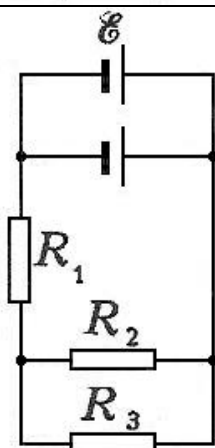
Вариант 2



$\mathcal{E}_3 = 1,05 \text{ В}$ $r_3 = 0,25 \text{ Ом}$
 $R_1 = 4 \text{ Ом}$ $R_2 = 20 \text{ Ом}$
 $R_3 = 10 \text{ Ом}$

$\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$

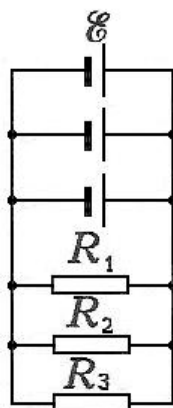
Вариант 3



$\mathcal{E}_3 = 9 \text{ В}$ $r_3 = 2 \text{ Ом}$
 $R_1 = 7,8 \text{ Ом}$ $R_2 = 2 \text{ Ом}$
 $R_3 = 3 \text{ Ом}$

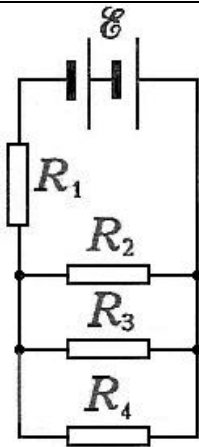
$\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$

Вариант 4



$\mathcal{E}_3 = 6 \text{ В}$ $r_3 = 0,6 \text{ Ом}$
 $R_1 = 6 \text{ Ом}$ $R_2 = 10 \text{ Ом}$
 $R_3 = 15 \text{ Ом}$

$\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$



Вариант 5

$$\mathcal{E}_3 = 4,5 \text{ В} \quad r_3 = 0,5 \text{ Ом}$$

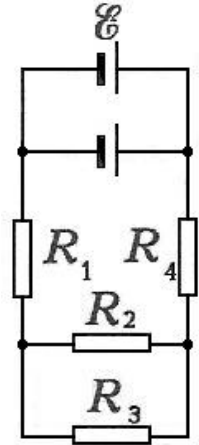
$$R_1 = 6 \text{ Ом} \quad R_2 = 12 \text{ Ом}$$

$$R_3 = 6 \text{ Ом} \quad R_4 = 12 \text{ Ом}$$

$$\mathcal{E} - ? \quad r - ? \quad R - ? \quad I - ?$$

$$I_1 - ? \quad I_2 - ? \quad I_3 - ? \quad I_4 - ?$$

$$U_1 - ? \quad U_2 - ? \quad U_3 - ? \quad U_4 - ?$$



Вариант 6

$$\mathcal{E}_3 = 9 \text{ В} \quad r_3 = 2 \text{ Ом}$$

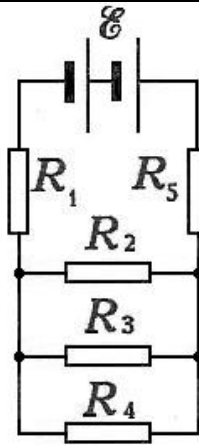
$$R_1 = 3,25 \text{ Ом} \quad R_2 = 1 \text{ Ом}$$

$$R_3 = 3 \text{ Ом} \quad R_4 = 5 \text{ Ом}$$

$$\mathcal{E} - ? \quad r - ? \quad R - ? \quad I - ?$$

$$I_1 - ? \quad I_2 - ? \quad I_3 - ? \quad I_4 - ?$$

$$U_1 - ? \quad U_2 - ? \quad U_3 - ? \quad U_4 - ?$$



Вариант 7

$$\mathcal{E}_3 = 4,5 \text{ В} \quad r_3 = 0,5 \text{ Ом}$$

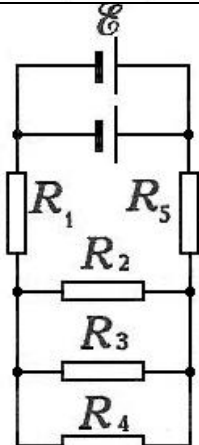
$$R_1 = 1 \text{ Ом} \quad R_2 = 10 \text{ Ом}$$

$$R_3 = 15 \text{ Ом} \quad R_4 = 6 \text{ Ом} \quad R_5 = 5 \text{ Ом}$$

$$\mathcal{E} - ? \quad r - ? \quad R - ? \quad I - ?$$

$$I_1 - ? \quad I_2 - ? \quad I_3 - ? \quad I_4 - ? \quad I_5 - ?$$

$$U_1 - ? \quad U_2 - ? \quad U_3 - ? \quad U_4 - ? \quad U_5 - ?$$



Вариант 8

$$\mathcal{E}_3 = 9 \text{ В} \quad r_3 = 2 \text{ Ом}$$

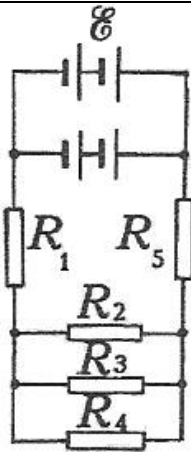
$$R_1 = 3 \text{ Ом} \quad R_2 = 6 \text{ Ом}$$

$$R_3 = 6 \text{ Ом} \quad R_4 = 6 \text{ Ом} \quad R_5 = 4 \text{ Ом}$$

$$\mathcal{E} - ? \quad r - ? \quad R - ? \quad I - ?$$

$$I_1 - ? \quad I_2 - ? \quad I_3 - ? \quad I_4 - ? \quad I_5 - ?$$

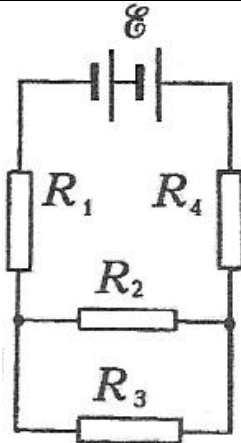
$$U_1 - ? \quad U_2 - ? \quad U_3 - ? \quad U_4 - ? \quad U_5 - ?$$



Вариант 9

$\mathcal{E}_3 = 2 \text{ В}$ $r_3 = 0,5 \text{ Ом}$
 $R_1 = 0,25 \text{ Ом}$ $R_2 = 2 \text{ Ом}$
 $R_3 = 6 \text{ Ом}$ $R_4 = 3 \text{ Ом}$ $R_5 = 0,75 \text{ Ом}$

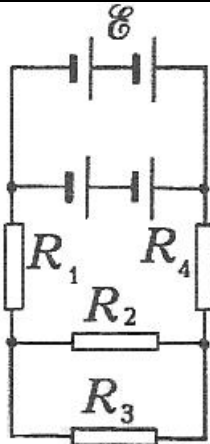
$\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$ $I_5 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$ $U_5 - ?$



Вариант 10

$\mathcal{E}_3 = 4,5 \text{ В}$ $r_3 = 0,5 \text{ Ом}$
 $R_1 = 1 \text{ Ом}$ $R_2 = 3 \text{ Ом}$
 $R_3 = 6 \text{ Ом}$ $R_4 = 6 \text{ Ом}$

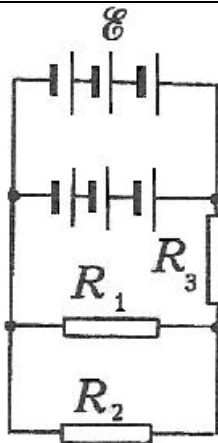
$\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$



Вариант 11

$\mathcal{E}_3 = 3 \text{ В}$ $r_3 = 1 \text{ Ом}$
 $R_1 = 2,75 \text{ Ом}$ $R_2 = 1 \text{ Ом}$
 $R_3 = 3 \text{ Ом}$ $R_4 = 1,5 \text{ Ом}$

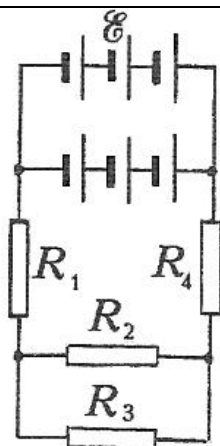
$\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$



Вариант 12

$\mathcal{E}_3 = 2 \text{ В}$ $r_3 = 0,5 \text{ Ом}$
 $R_1 = 2 \text{ Ом}$ $R_2 = 3 \text{ Ом}$
 $R_3 = 1,05 \text{ Ом}$

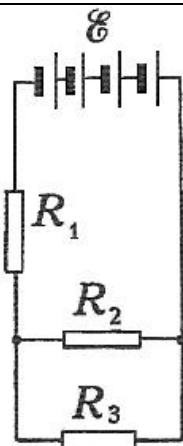
$\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$



Вариант 13

$$\begin{aligned} \mathcal{E}_3 &= 2 \text{ В} \quad r_3 = 0,5 \text{ Ом} \\ R_1 &= 0,6 \text{ Ом} \quad R_2 = 2 \text{ Ом} \\ R_3 &= 3 \text{ Ом} \quad R_4 = 0,45 \text{ Ом} \end{aligned}$$

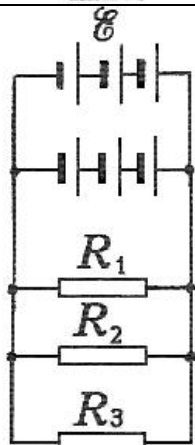
$$\begin{aligned} \mathcal{E} - ? \quad r - ? \quad R - ? \quad I - ? \\ I_1 - ? \quad I_2 - ? \quad I_3 - ? \quad I_4 - ? \\ U_1 - ? \quad U_2 - ? \quad U_3 - ? \quad U_4 - ? \end{aligned}$$



Вариант 14

$$\begin{aligned} \mathcal{E}_3 &= 1,05 \text{ В} \quad r_3 = 0,25 \text{ Ом} \\ R_1 &= 1 \text{ Ом} \quad R_2 = 6 \text{ Ом} \\ R_3 &= 3 \text{ Ом} \end{aligned}$$

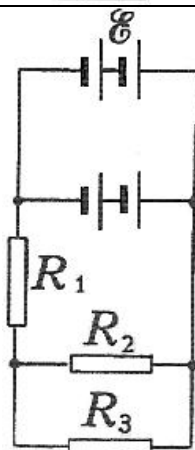
$$\begin{aligned} \mathcal{E} - ? \quad r - ? \quad R - ? \quad I - ? \\ I_1 - ? \quad I_2 - ? \quad I_3 - ? \\ U_1 - ? \quad U_2 - ? \quad U_3 - ? \end{aligned}$$



Вариант 15

$$\begin{aligned} \mathcal{E}_3 &= 2 \text{ В} \quad r_3 = 0,5 \text{ Ом} \\ R_1 &= 6 \text{ Ом} \quad R_2 = 10 \text{ Ом} \\ R_3 &= 15 \text{ Ом} \end{aligned}$$

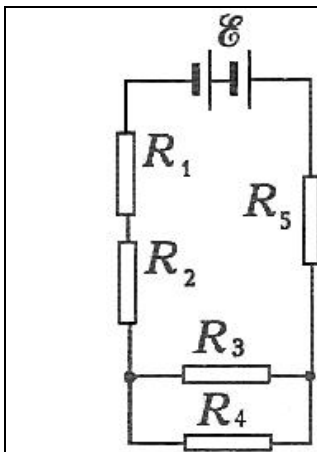
$$\begin{aligned} \mathcal{E} - ? \quad r - ? \quad R - ? \quad I - ? \\ I_1 - ? \quad I_2 - ? \quad I_3 - ? \\ U_1 - ? \quad U_2 - ? \quad U_3 - ? \end{aligned}$$



Вариант 16

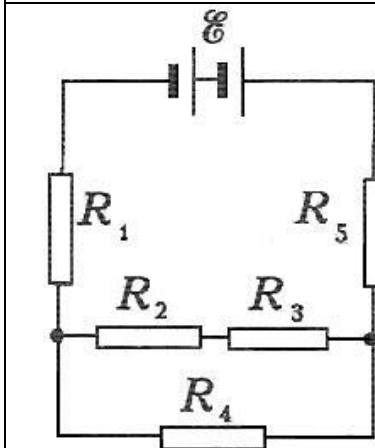
$$\begin{aligned} \mathcal{E}_3 &= 3 \text{ В} \quad r_3 = 1 \text{ Ом} \\ R_1 &= 12 \text{ Ом} \quad R_2 = 6 \text{ Ом} \\ R_3 &= 12 \text{ Ом} \end{aligned}$$

$$\begin{aligned} \mathcal{E} - ? \quad r - ? \quad R - ? \quad I - ? \\ I_1 - ? \quad I_2 - ? \quad I_3 - ? \\ U_1 - ? \quad U_2 - ? \quad U_3 - ? \end{aligned}$$



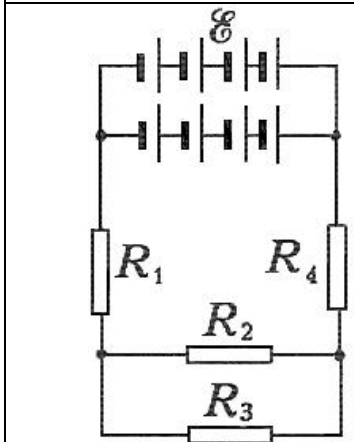
Вариант 17

$\mathcal{E} = 4,5 \text{ В}$ $r = 0,5 \text{ Ом}$
 $R_1 = 1,5 \text{ Ом}$ $R_2 = 0,5 \text{ Ом}$
 $R_3 = 10 \text{ Ом}$ $R_4 = 15 \text{ Ом}$
 $R_5 = 1 \text{ Ом}$
 $\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$ $I_5 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$ $U_5 - ?$



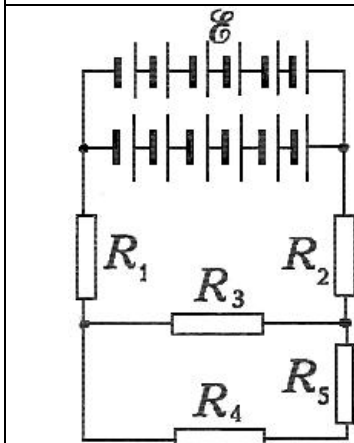
Вариант 18

$\mathcal{E} = 4,5 \text{ В}$ $r = 0,5 \text{ Ом}$
 $R_1 = 5 \text{ Ом}$ $R_2 = 3 \text{ Ом}$
 $R_3 = 3 \text{ Ом}$ $R_4 = 3 \text{ Ом}$
 $R_5 = 2 \text{ Ом}$
 $\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$ $I_5 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$ $U_5 - ?$



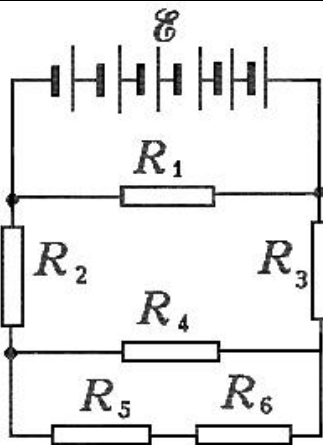
Вариант 19

$\mathcal{E} = 1,5 \text{ В}$ $r = 0,5 \text{ Ом}$
 $R_1 = 0,5 \text{ Ом}$ $R_2 = 4,5 \text{ Ом}$
 $R_3 = 9 \text{ Ом}$ $R_4 = 1,5 \text{ Ом}$
 $\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$



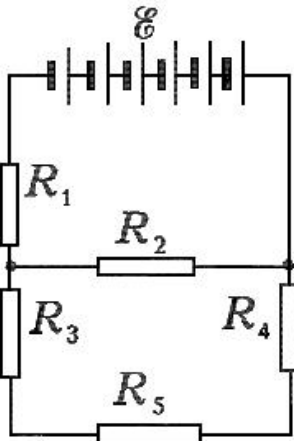
Вариант 20

$\mathcal{E} = 2 \text{ В}$ $r = 1 \text{ Ом}$
 $R_1 = 2 \text{ Ом}$ $R_2 = 1 \text{ Ом}$
 $R_3 = 10 \text{ Ом}$ $R_4 = 8 \text{ Ом}$ $R_5 = 7 \text{ Ом}$
 $\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$ $I_5 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$ $U_5 - ?$



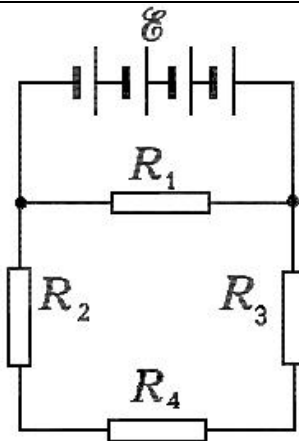
Вариант 21

$\mathcal{E} = 1,5 \text{ В}$ $r = 0,5 \text{ Ом}$
 $R_1 = 12 \text{ Ом}$ $R_2 = 6,5 \text{ Ом}$
 $R_3 = 2,5 \text{ Ом}$ $R_4 = 6 \text{ Ом}$
 $R_5 = 4 \text{ Ом}$ $R_6 = 2 \text{ Ом}$
 $\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$ $I_5 - ?$ $I_6 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$ $U_5 - ?$ $U_6 - ?$



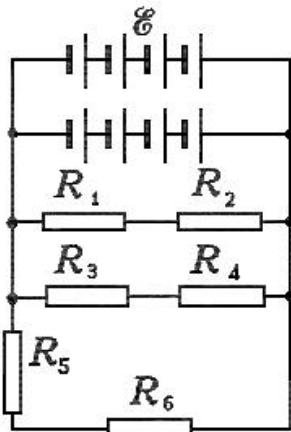
Вариант 22

$\mathcal{E} = 1,5 \text{ В}$ $r = 0,25 \text{ Ом}$
 $R_1 = 2,5 \text{ Ом}$ $R_2 = 10 \text{ Ом}$
 $R_3 = 1 \text{ Ом}$ $R_4 = 6 \text{ Ом}$ $R_5 = 3 \text{ Ом}$
 $\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$ $I_5 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$ $U_5 - ?$



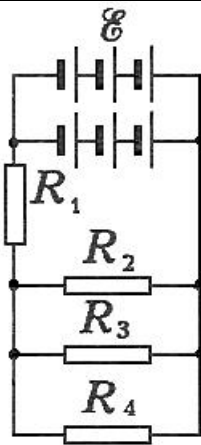
Вариант 23

$\mathcal{E} = 1,05 \text{ В}$ $r = 0,25 \text{ Ом}$
 $R_1 = 8 \text{ Ом}$ $R_2 = 1 \text{ Ом}$
 $R_3 = 3 \text{ Ом}$ $R_4 = 4 \text{ Ом}$
 $\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$



Вариант 24

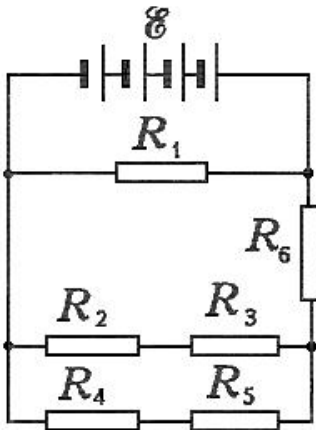
$\mathcal{E} = 1,5 \text{ В}$ $r = 0,5 \text{ Ом}$
 $R_1 = 7 \text{ Ом}$ $R_2 = 8 \text{ Ом}$
 $R_3 = 9 \text{ Ом}$ $R_4 = 6 \text{ Ом}$
 $R_5 = 5 \text{ Ом}$ $R_6 = 10 \text{ Ом}$
 $\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$ $I_5 - ?$ $I_6 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$ $U_5 - ?$ $U_6 - ?$



Вариант 25

$\mathcal{E}_3 = 2 \text{ В}$ $r_3 = 0,5 \text{ Ом}$
 $R_1 = 0,25 \text{ Ом}$ $R_2 = 15 \text{ Ом}$
 $R_3 = 6 \text{ Ом}$ $R_4 = 10 \text{ Ом}$

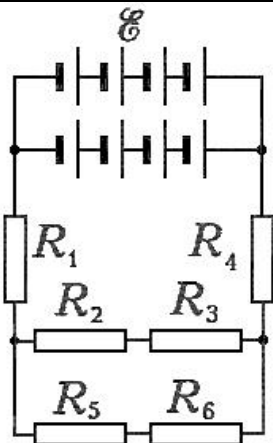
$\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$



Вариант 26

$\mathcal{E}_3 = 1,05 \text{ В}$ $r_3 = 0,25 \text{ Ом}$
 $R_1 = 12 \text{ Ом}$ $R_2 = 7 \text{ Ом}$
 $R_3 = 8 \text{ Ом}$ $R_4 = 6 \text{ Ом}$
 $R_5 = 4 \text{ Ом}$ $R_6 = 6 \text{ Ом}$

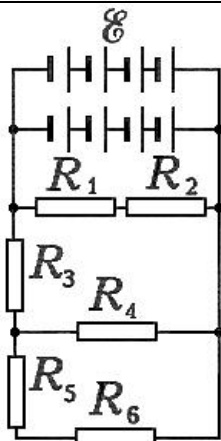
$\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$ $I_5 - ?$ $I_6 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$ $U_5 - ?$ $U_6 - ?$



Вариант 27

$\mathcal{E}_3 = 1,5 \text{ В}$ $r_3 = 0,5 \text{ Ом}$
 $R_1 = 0,5 \text{ Ом}$ $R_2 = 4 \text{ Ом}$
 $R_3 = 5 \text{ Ом}$ $R_4 = 1,5 \text{ Ом}$
 $R_5 = 2 \text{ Ом}$ $R_6 = 2,5 \text{ Ом}$

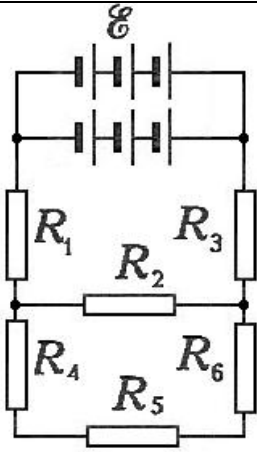
$\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$ $I_5 - ?$ $I_6 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$ $U_5 - ?$ $U_6 - ?$



Вариант 28

$\mathcal{E}_3 = 1,5 \text{ В}$ $r_3 = 0,5 \text{ Ом}$
 $R_1 = 7 \text{ Ом}$ $R_2 = 3 \text{ Ом}$
 $R_3 = 5 \text{ Ом}$ $R_4 = 10 \text{ Ом}$
 $R_5 = 6,5 \text{ Ом}$ $R_6 = 3,5 \text{ Ом}$

$\mathcal{E} - ?$ $r - ?$ $R - ?$ $I - ?$
 $I_1 - ?$ $I_2 - ?$ $I_3 - ?$ $I_4 - ?$ $I_5 - ?$ $I_6 - ?$
 $U_1 - ?$ $U_2 - ?$ $U_3 - ?$ $U_4 - ?$ $U_5 - ?$ $U_6 - ?$



Вариант 29

$$\mathcal{E}_3 = 2 \text{ В} \quad r_3 = 0,5 \text{ Ом}$$

$$R_1 = 0,1 \text{ Ом} \quad R_2 = 6 \text{ Ом}$$

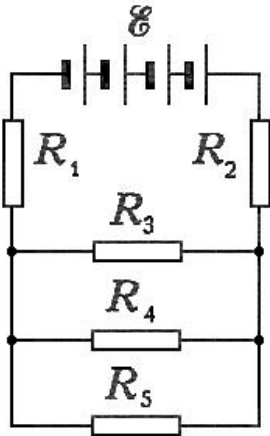
$$R_3 = 0,15 \text{ Ом} \quad R_4 = 1 \text{ Ом}$$

$$R_5 = 2 \text{ Ом} \quad R_6 = 3 \text{ Ом}$$

$$\mathcal{E} - ? \quad r - ? \quad R - ? \quad I - ?$$

$$I_1 - ? \quad I_2 - ? \quad I_3 - ? \quad I_4 - ? \quad I_5 - ? \quad I_6 - ?$$

$$U_1 - ? \quad U_2 - ? \quad U_3 - ? \quad U_4 - ? \quad U_5 - ? \quad U_6 - ?$$



Вариант 30

$$\mathcal{E}_3 = 1,05 \text{ В} \quad r_3 = 0,25 \text{ Ом}$$

$$R_1 = 2 \text{ Ом} \quad R_2 = 10 \text{ Ом}$$

$$R_3 = 15 \text{ Ом} \quad R_4 = 6 \text{ Ом}$$

$$R_5 = 1 \text{ Ом}$$

$$\mathcal{E} - ? \quad r - ? \quad R - ? \quad I - ?$$

$$I_1 - ? \quad I_2 - ? \quad I_3 - ? \quad I_4 - ? \quad I_5 - ?$$

$$U_1 - ? \quad U_2 - ? \quad U_3 - ? \quad U_4 - ? \quad U_5 - ?$$