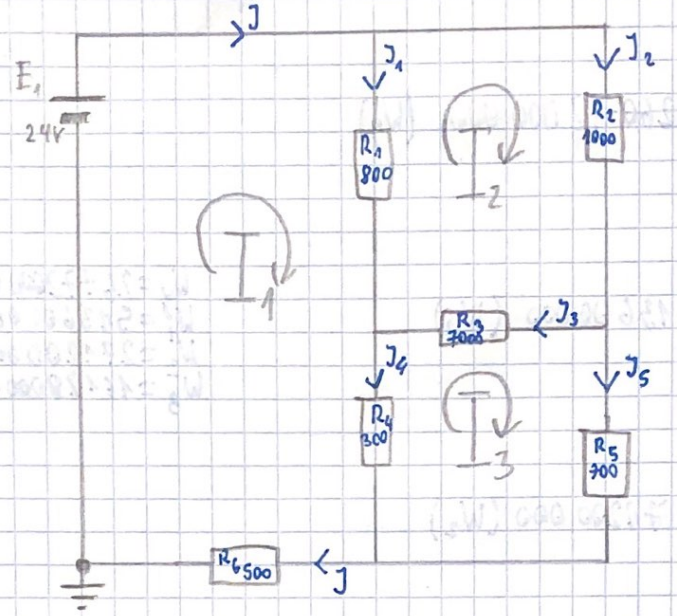

$V_1 = 24V$

$R_1 = 8 \cdot 100\,[\Omega] = 800\,[\Omega]$

$R_2 = 1\,[k\Omega] = 1000\,[\Omega]$

$R_3 = 7\,[k\Omega] = 7000\,[\Omega]$

$R_4 = 3 \cdot 100\,[\Omega] = 300\,[\Omega]$

$R_5 = 7 \cdot 100\,[\Omega] = 700\,[\Omega]$

$R_6 = 500\,[\Omega]$

$$\begin{cases} I_1(R_1+R_4+R_6) - I_2R_1 - I_3R_4 = E_1 \\ I_2(R_1+R_2+R_3) - I_1R_1 - I_3R_3 = 0 \\ I_3(R_3+R_4+R_5) - I_1R_4 - I_2R_3 = 0 \end{cases}$$

$$\begin{cases} I_1(800+300+500) - I_2 \cdot 800 - I_3 \cdot 300 = 24 \\ I_2(800+1000+7000) - I_1 \cdot 800 - I_3 \cdot 7000 = 0 \\ I_3(7000+300+700) - I_1 \cdot 700 - I_2 \cdot 7000 = 0 \end{cases}$$

$$\begin{cases} 1600I_1 - 800I_2 - 300I_3 = 24 \\ -\ 00I_1 + 8800I_2 - 7000I_3 = 0 \\ -700I_1 - 7000I_2 + 8000I_3 = 0 \end{cases}$$

$$\begin{vmatrix} 1600 & -800 & -300 \\ -800 & 8800 & -7000 \\ -700 & -7000 & 8000 \end{vmatrix} = 26772000000 \quad (W_g)$$

$$\begin{vmatrix} 24 & -800 & -300 \\ 0 & 8800 & -7000 \\ 0 & -7000 & 8000 \end{vmatrix} = 5136000000 \quad (W_1)$$

$$\begin{vmatrix} 1600 & 24 & -300 \\ -800 & 0 & -7000 \\ -700 & 0 & 8000 \end{vmatrix} = 271200000 \quad (W_2)$$

$$\begin{vmatrix} 1600 & -800 & 24 \\ -800 & 8800 & 0 \\ -700 & -7000 & 0 \end{vmatrix} = 161280000 \quad (W_3)$$

$W_g = 26772000000$
$W_1 = 5136000000$
$W_2 = 271200000$
$W_3 = 161280000$

$$I_1 = \frac{W_1}{W_g} = 0,01918 = 19,18\,mA$$
$$I_2 = \frac{W_2}{W_g} = 0,01012 = 10,12\,mA$$
$$I_3 = \frac{W_3}{W_g} = 0,00602 = 6,02\,mA$$

$$I_4 = I_1 + I_3$$
$$I_5 = I_2 - I_3$$
$$I_6 = I_1 + I_2$$

$$I_4 = 19,18 + 6,02 = 25,2\,mA$$
$$I_5 = 10,12 - 6,02 = 4,1\,mA$$
$$I_6 = 19,18 + 10,12 = 29,3\,mA$$