

$$U_{10} = \frac{15 \cdot 2V + 0,5 S \cdot 8V}{1S + 0,5S + \frac{1}{12} S} = \frac{6VS}{\frac{19}{12} S} = \underline{\underline{3,789V}}$$

$$I_1 = (U_{q1} - U_{10}) \cdot G_1$$

$$I_1 = (2V - 3,789V) \cdot 1S = \underline{\underline{-1,789 A}}$$

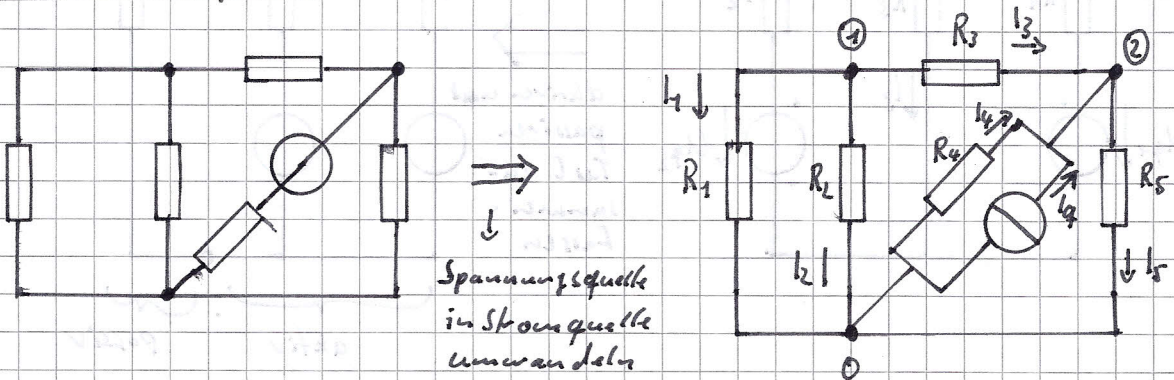
$$I_2 = (U_{q2} - U_{10}) \cdot G_2 = (8V - 3,789V) \cdot \frac{1}{2} S$$

$$\underline{\underline{I_2 = 2,105 A}}$$

$$I_3 = U_{10} \cdot G_3 = 3,789V \cdot \frac{1}{12} S$$

$$\underline{\underline{I_3 = 0,316 A}}$$

Weiteres Beispiel:



$$I \quad I_1 + I_2 + I_3 = 0 \Rightarrow U_{10} G_1 + U_{10} G_2 + (U_{10} - U_{20}) G_3 = 0$$

$$II \quad I_4 + I_4 + I_3 - I_5 = 0 \Rightarrow -I_4 = -U_{20} G_4 + (U_{10} - U_{20}) G_3 - U_{20} G_5$$

\Downarrow nächster Schritt \rightarrow Lösen des
Gleichungssystems