

$$\begin{array}{rclcl}
 \text{IV} & 330 \, I_1 & - & 850 \, I_3 & = & 0 \\
 \text{V. 3.3} & 330 \, I_1 & + & 2046 \, I_3 & = & 33 \\
 \hline
 & 0 \, I_1 & - & 2996 \, I_3 & = & -33
 \end{array}$$

$$I_3 = \frac{-33}{-2996}$$

$$\underline{\underline{I_3 \approx 0,011 \, A}}$$

$$I_3 \text{ in IV} \quad 330 \, I_1 - 10,45 = 0$$

$$I_1 = \frac{10,45}{330}$$

$$\underline{\underline{I_1 \approx 0,0317 \, A}}$$

$$I_1 \text{ in I} \quad 0,0317 - I_2 - 0,011 = 0$$

$$-I_2 = -0,0207 \, A$$

$$\underline{\underline{I_2 = 0,0207 \, A}}$$

$$U_1 = I_1 \cdot R_1 = 0,0317 \, A \cdot 100 \, \Omega$$

$$\underline{\underline{U_1 = 3,17 \, V}}$$

$$U_2 = U_{DC} - U_1 = 10 \, V - 3,17 \, V$$

$$\underline{\underline{U_2 = 6,83 \, V}}$$

$$U_3 = I_3 \cdot R_3 = 0,011 \, A \cdot 150 \, \Omega$$

$$\underline{\underline{U_3 = 1,65 \, V}}$$

$$U_4 = I_3 \cdot R_4 = 0,011 \, A \cdot 470 \, \Omega$$

$$\underline{\underline{U_4 = 5,17 \, V}}$$