

Spanning over  $R_3$ ?

$$\text{KVL: } -U_{R_2 R_3} + 28V + 10V = 0 \Rightarrow -U_{R_2 R_3} = -28V - 10V$$

$$-U_{R_2 R_3} = -43V$$

$$U_{R_2 R_3} = 43V$$

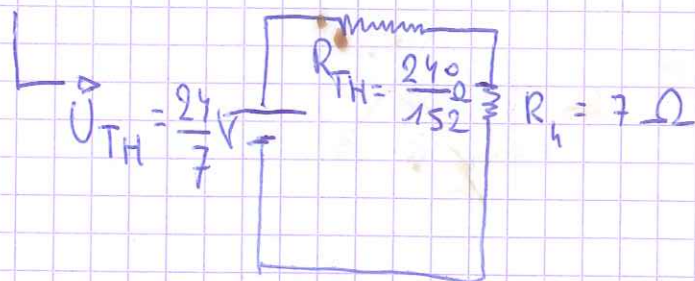
$$R_3 = \frac{43V \cdot R_3}{R_3 + R_2} = \frac{43V \cdot 4\Omega}{7\Omega} \approx 24,57$$

$$U_{TH} = \frac{43V \cdot 4\Omega}{7\Omega} = \frac{172}{7} V$$

$$U_{TH} =$$

$$28V - \frac{172}{7} V \left( \frac{43V \cdot 4\Omega}{7\Omega} \right)$$

$$\frac{196}{7} V - \frac{172}{7} V = \frac{24}{7} V$$



$$I_{R_L} = \frac{U}{R}$$

$$I_{R_L} = \frac{\frac{24}{7}}{\frac{1304}{152}} = \frac{24}{7} \cdot \frac{152}{1304} =$$

$$= \frac{3648}{9128} = 0,399A \approx 0,4A$$

$$R_{TH} + R_L = \frac{240}{152} + \frac{1064}{152} = \frac{1304}{152} \Omega$$