aufgabe_4.5.3

Student Group

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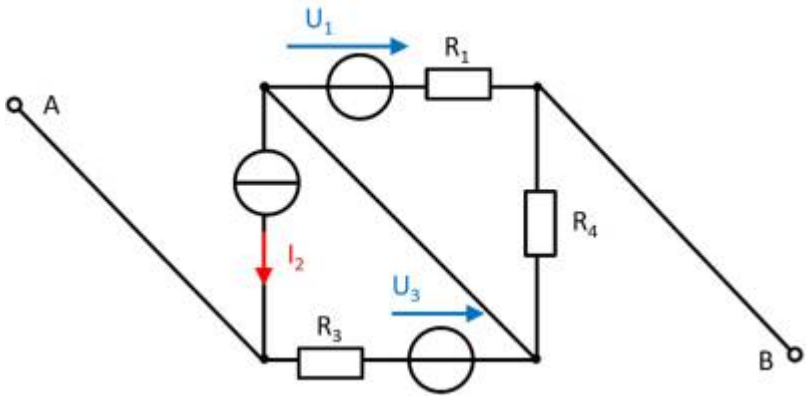
Exercise 4.5.3 -Variation: open circuit voltage via superposition (exam task, approx. 12% of a 60-minute exam, WS2020)



A circuit is given with the following parameters
$R_1=5 \Omega$
$U_1=2 V$
$I_2=1 A$
$R_3=20 \Omega$
$U_3=8 V$
$R_4=10 \Omega$

Determine the open circuit voltage between A and B using the principle of superposition.

Endergebnis

\begin{align*} U_{AB} = 29,333... V -> 29,3 V \\ \end{align*}