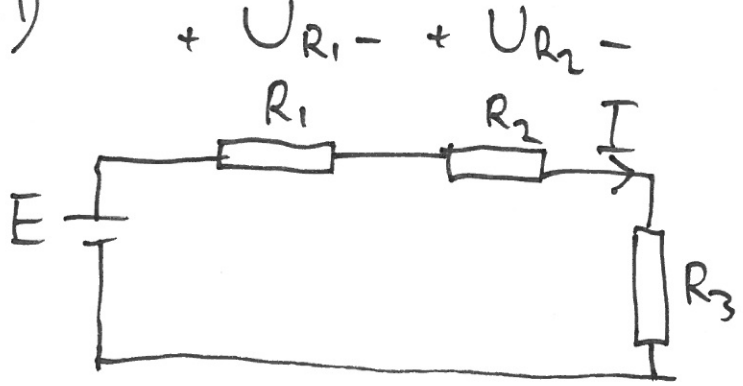
A 2.1)



$I = 5\,A$

$R_3 = 2\,\Omega$

$P_{R_2} = 25\,W$

$U_{R_1} = 20\,V$

$E = R_{tot} \cdot I$

$R_{tot} = R_1 + R_2 + R_3$

R_1?

$$U_{R_1} = R_1 \cdot I \Rightarrow R_1 = \frac{U_{R_1}}{I} = \frac{20}{5} = 4\,\Omega$$

R_2?

$$P_{R_2} = U_{R_2} \cdot I \Rightarrow U_{R_2} = \frac{P_{R_2}}{I} = \frac{25}{5} = 5\,V$$

$$U_{R_2} = R_2 \cdot I \Rightarrow R_2 = \frac{U_{R_2}}{I} = \frac{5}{5} = 1\,\Omega$$

$$R_{tot} = 4 + 1 + 2 = 7\,\Omega$$

$$E = 7 \cdot 5 = 35\,V$$

$$\boxed{E = 35\,V}$$