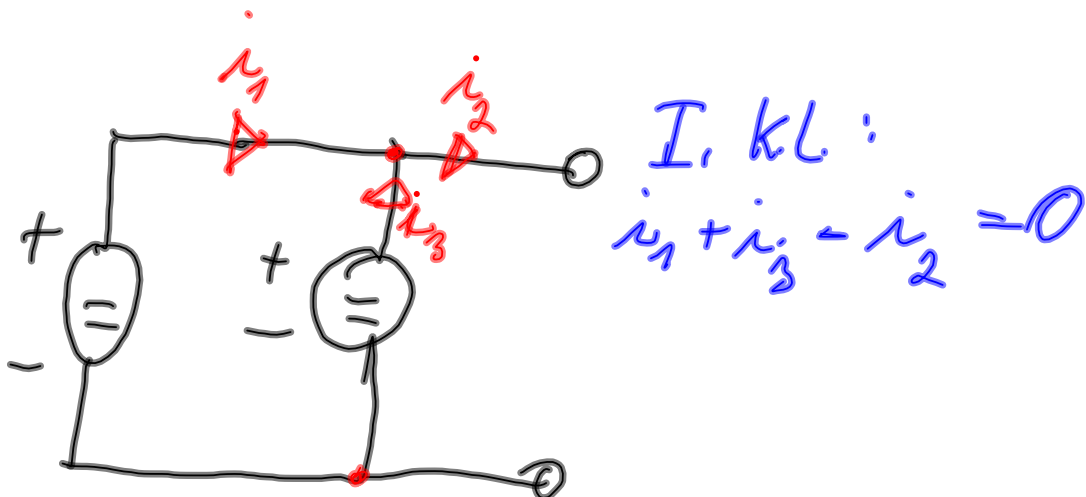
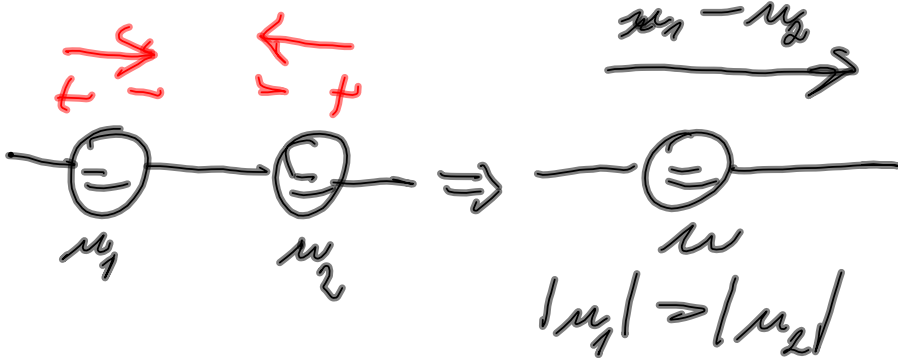
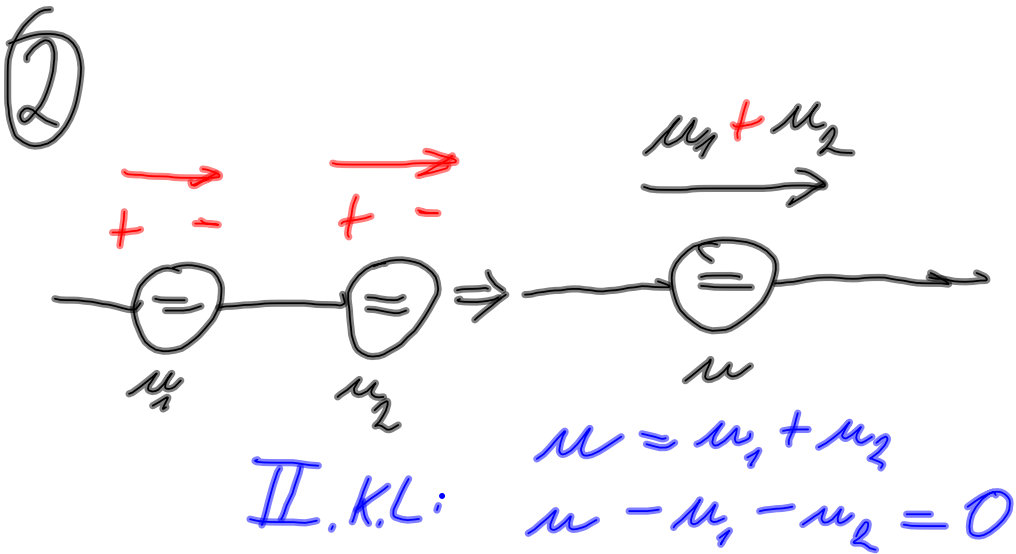
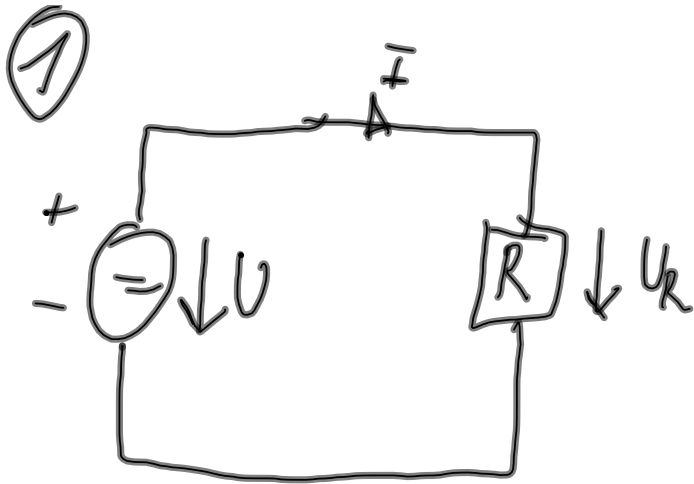
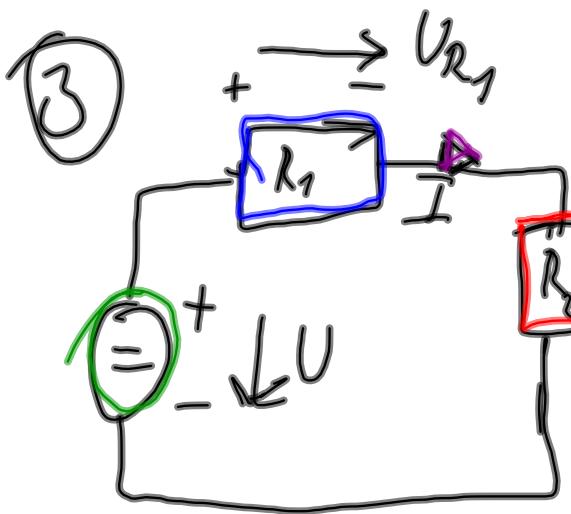


IELE, 22.09.2016

1st lecture





$$U_{R_1} = I \cdot R_1$$

$$U_{R_2} = I \cdot R_2$$

$$U = U_{R_1} + U_{R_2} \Rightarrow$$

$$\Rightarrow U - U_{R_1} - U_{R_2} = 0$$

$$I = \frac{U_{R_1}}{R_1} = \frac{U_{R_2}}{R_2}$$



$$R = R_1 + R_2$$

$$I = \frac{U}{R}$$

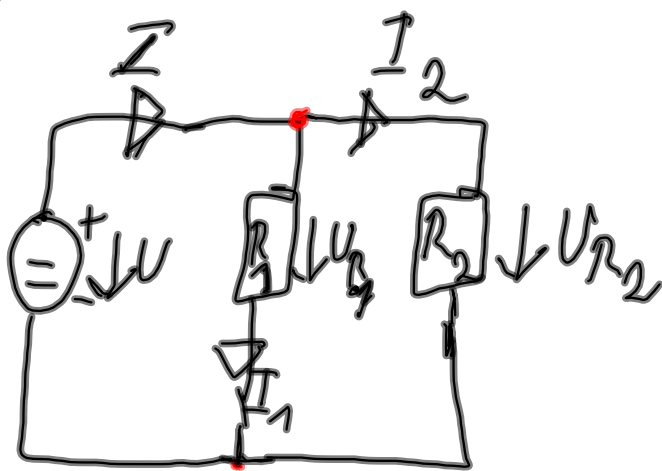
$$R_1 = R_2 = 50 \, \Omega$$

$$I = \frac{U}{R_1 + R_2} = \frac{1}{100} = 0,01 \, \text{A}$$

$$U = 1 \, \text{V}$$

$$U_{R_1} = I \cdot R_1 = 0,01 \cdot 50 = \underline{\underline{0,5 \, \text{V}}}$$

④



$$I = I_1 + I_2$$

$$U_{R_1} = I_1 \cdot R_1$$

$$U_{R_2} = I_2 \cdot R_2$$

$$U = U_{R_1} = U_{R_2}$$

$$I_1 = \frac{U_{R_1}}{R_1} = \frac{U}{R_1}$$

$$I_2 = \frac{U_{R_2}}{R_2} = \frac{U}{R_2}$$