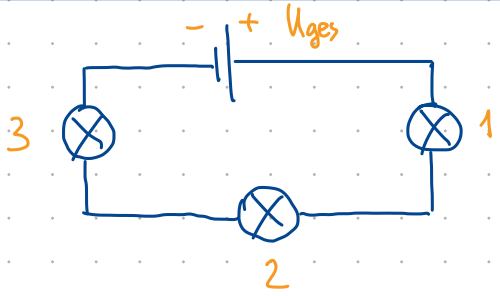
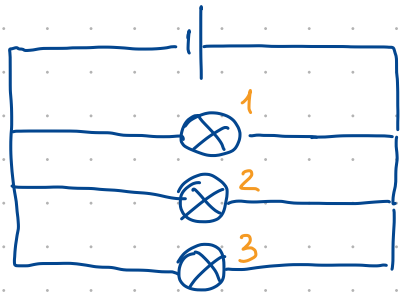
Komplexere Schaltkreise

	Reihenschaltung	Parallelschaltung
		
U	$U_{ges} = U_1 + U_2 + U_3$	$U_{ges} = U_1 = U_2 = U_3$
I	$I_{ges} = I_1 = I_2 = I_3$	$I_{ges} = I_1 + I_2 + I_3$
R	$R_{ges} = R_1 + R_2 + R_3$	$\frac{1}{R_{ges}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$

$R = \frac{U}{I}$ das Ohm'sche Gesetz $(U = R \cdot I)$

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

$U_{ges} = U_1 + U_2$

$R_{ges} \cdot \frac{I_{ges}}{I} = R_1 \cdot \frac{I_1}{I} + R_2 \cdot \frac{I_2}{I}$

$I_{ges} = I_1 + I_2$

$\frac{\overset{U}{U_{ges}}}{R_{ges}} = \frac{\overset{U}{U_1}}{R_1} + \frac{\overset{U}{U_2}}{R_2}$