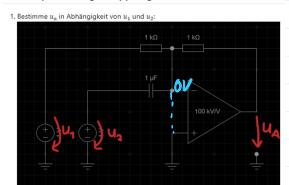


## 2. inv. OpV mit Gegenkopplung

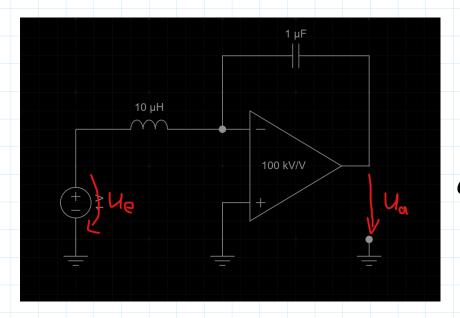


$$i_{R} = \frac{u_{R}}{R} = \frac{u_{t}}{R}$$

$$i_{c} = C \frac{d}{dt} u_{c} = C \frac{d}{dt} u_{z}$$

$$i = i_{R} + i_{c}$$

$$u_4 = -\left(\mathbf{C} \frac{d}{dt} u_2 + \frac{1}{R} u_1\right) \cdot R$$



$$i_{L} = \frac{1}{L} \int u_{e} dt$$

$$i_{c} = C \frac{d}{dt} u_{c}$$

$$(=) u_{c} = \frac{1}{C} \cdot \int i_{c} dt$$