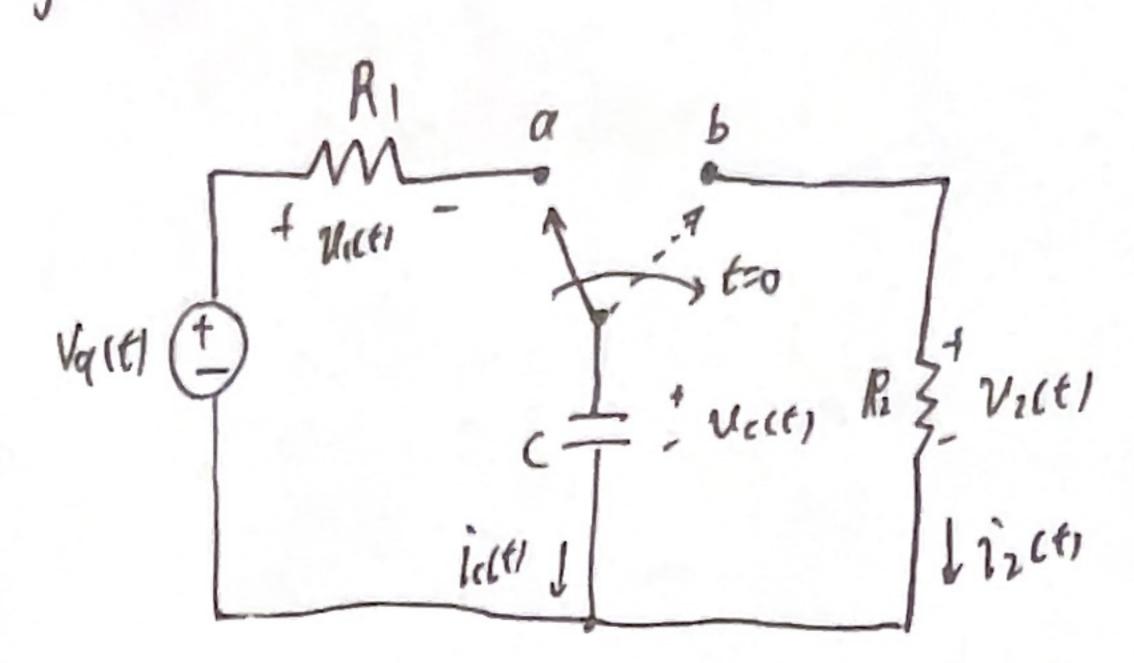
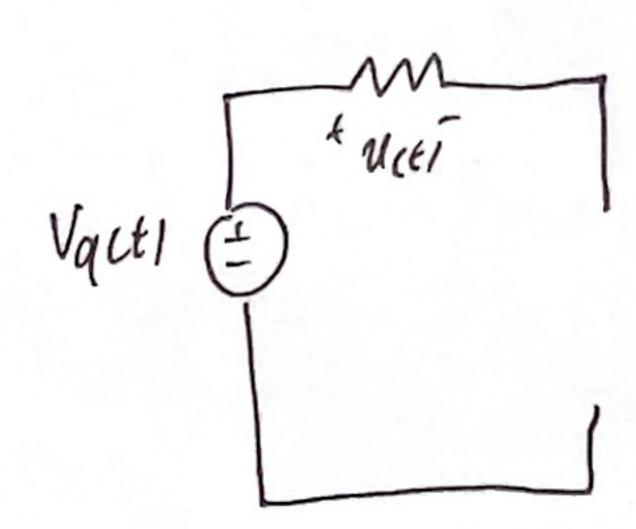
Autgabe 3



a f. Ucitl tco



$$C\frac{d\mathcal{U}_{(t)}}{dt} + i_{1}(t) = 0$$

$$KVL: \mathcal{U}_{(t)} = \mathcal{U}_{1}(t) = 0$$

$$\mathcal{U}_{(t)} = \mathcal{U}_{2}(t)$$

$$\mathcal{U}_{2}(t) = R_{2} \cdot i_{2}(t)$$

$$\Rightarrow C \frac{d\mathcal{U}(\mathcal{U})}{dt} + \frac{\mathcal{U}_{2}(t)}{R_{2}} = C \frac{d\mathcal{U}(t)}{dt} + \frac{\mathcal{U}(t)}{R_{2}} = 0$$