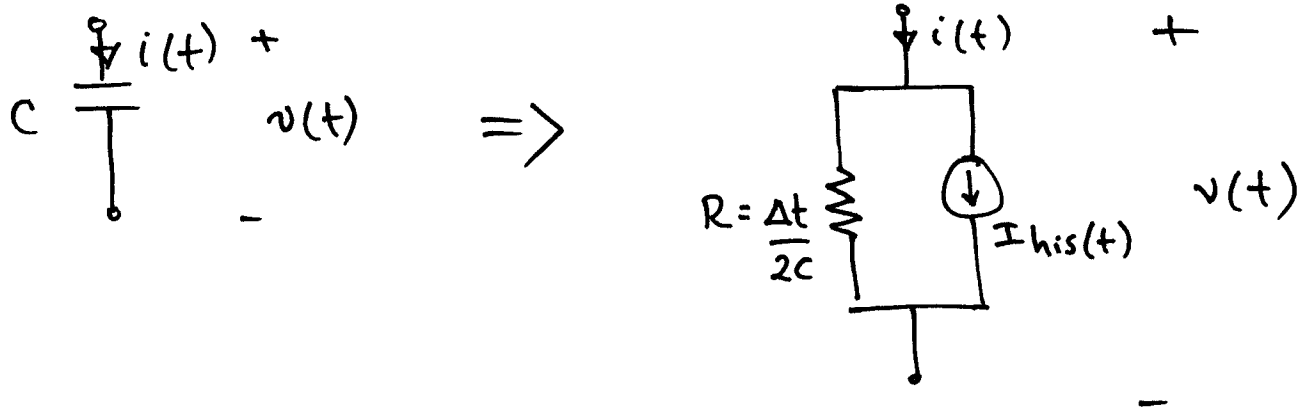


# Homework # 5

1/1

$$1) \quad i(t) = \frac{2C}{\Delta t} V(t) + I_{his}(t)$$

$$I_{his}(t) = -\frac{2C}{\Delta t} V(t - \Delta t) - i(t - \Delta t)$$



5.3)

$$I_{p \text{ reignition}} = 4.8 \text{ kA}$$

$$a) \quad V_c = 24.7 \text{ kV}$$

$$b) \quad V_c = 7.14 \text{ kV}$$

Following a),  $V_{p \text{ 2nd reignition}} = 45.6 \text{ kV}$

5.6)

$$V_p = 338 \text{ kV}$$