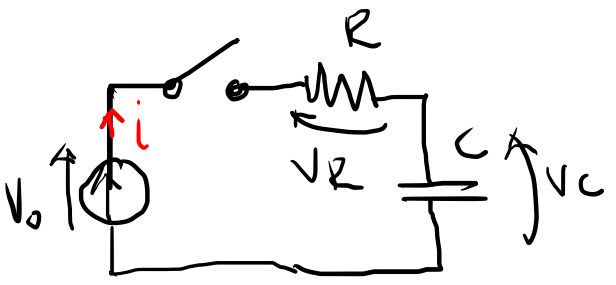


$$V_0 = V_R + V_C$$

$$V_0 = iR + \cdot$$

$$\boxed{I = \frac{\Delta Q}{\Delta t} = C\frac{\Delta V}{\Delta t} = C\frac{dV}{dt}}$$

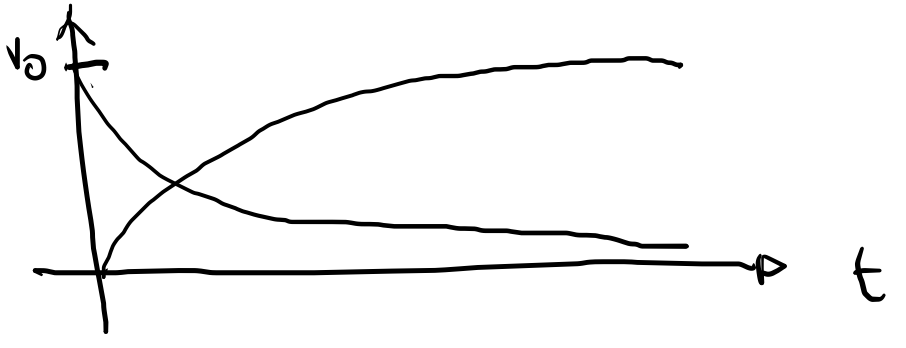
$$i = I_0 \cdot e^{-\frac{t}{RC}} \rightsquigarrow \underline{RC}$$

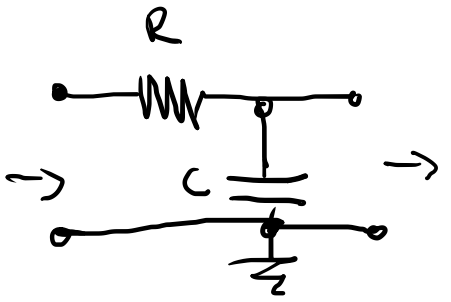
$$V_R = V_0 \cdot e^{-t/RC}$$

$$V_C = V_0\left(1 - e^{-t/RC}\right)$$

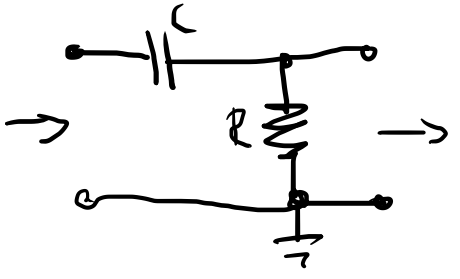
$$\Delta V = I \cdot \frac{1}{C} \cdot \Delta t$$

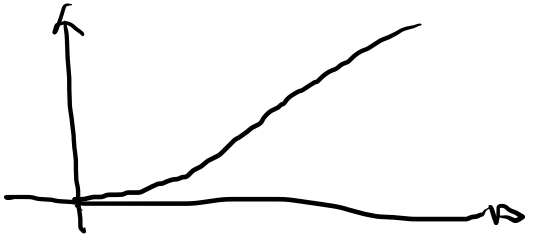
$$\boxed{V_C = \frac{1}{C}\int_0^t I\,dt}$$





$$f = \frac{1}{2\pi RC}$$





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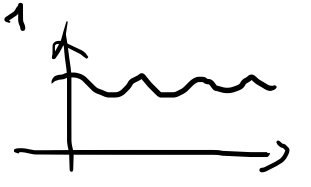

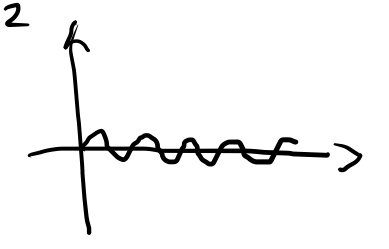

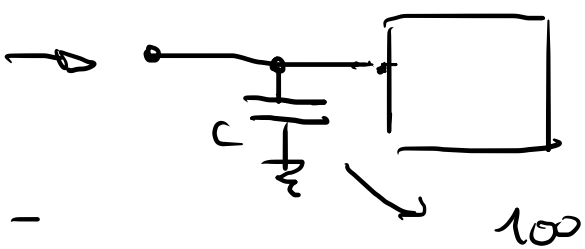

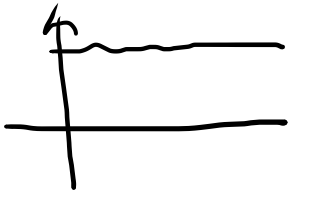

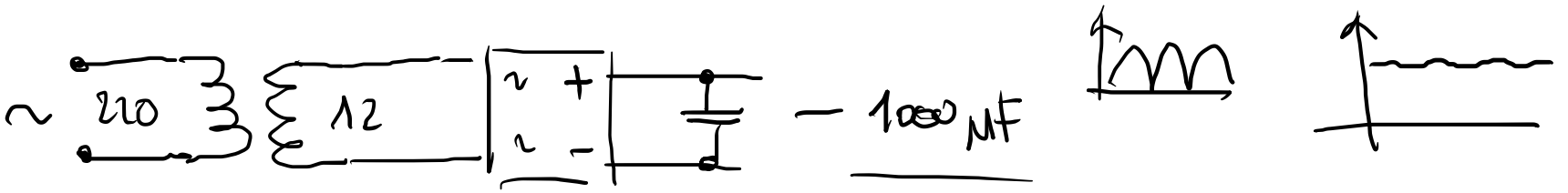
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