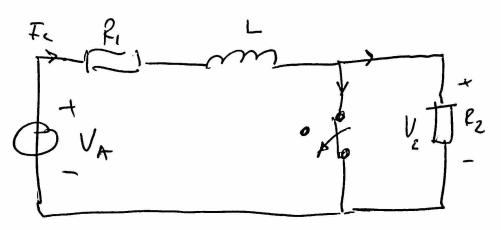
PROBLEM 3



$$R_1 = 10000 \Sigma$$

$$R_2 = 1000000 \Sigma$$

$$V_A = 10 V$$

$$L = 0,001 H$$

$$t > 0 s \qquad I_{L}(t) = I(\infty) + (I_{L}(0) - I_{L}(\infty)) \cdot e^{-\frac{t}{\tau}}$$

$$\downarrow^{\frac{p_{1}}{2}} - m \qquad \downarrow^{\frac{t}{2}} I_{L}(\infty) = 0$$

$$R_{TH} = R_1 + R_2 \Rightarrow 1000 + 100000 = 101000 S2$$

 $F_1(t=0)$

$$\begin{aligned}
\dot{t}_{C} \circ s : \dot{t}_{L} &= \frac{V_{A}}{R_{1} + R_{2}} \Rightarrow \frac{10}{1016000} = 90 \cdot 16^{6} = 90 \text{ mA} \\
\dot{\tau} &= \frac{L}{R_{4}} = \frac{L}{R_{74}} \Rightarrow \frac{0.001}{101000} = 9,9 \cdot 10^{9} = 9,9 \text{ ns} \\
\dot{I}_{L}(t) &= \frac{V_{A}}{R_{74}} \cdot e^{-\frac{t}{L/R_{74}}}
\end{aligned}$$

$$V_{\ell_2} = -I_{\ell} \cdot \ell_2 = -V_{A} \cdot \ell_2 \cdot e^{-\frac{t}{\tau}} \Rightarrow \frac{10.180000}{101000} \cdot e^{\frac{-0}{90.05}} = -9.9 V$$