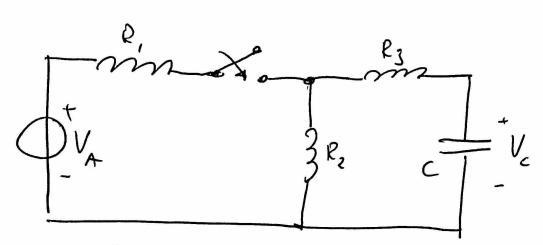
PROBLEM Y



$$V_{A} = 6 V$$
 $R_{1} - R_{2} = 10000 D$
 $R_{3} = 5000 D$
 $R = 100 NF$

$$R = \frac{l_2 l_3}{l_2 + l_3} \Rightarrow \frac{10000 \cdot 5000}{10000 + 5000} = 3333 SZ$$

$$N_{c}(0) = 0$$

$$\mathcal{L}_{TH} = \ell + \ell_{1} \Rightarrow 3333 + 10000 = 13333 \cdot 52$$

$$\mathcal{L} = \ell_{TH} \cdot C \Rightarrow 13333 \cdot 000000001 = 000133335 = 13 \text{ ms}$$

$$V_{c}(t=0.002) = 1.5 + (0-1.5) \cdot e^{-\frac{0.002}{0.0013337}}$$

$$V_{c}(t=0.002) = 1.16 \text{ V}$$