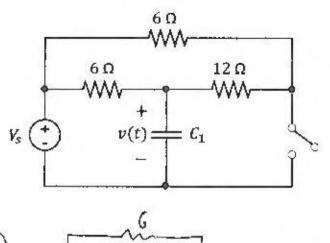
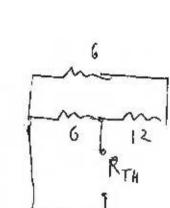
- a) Find the time constant τ_1 and the steady state capacitor voltage $v_1 = v(\infty)$ when the switch is open.
- Vs : 60 V
- b) Find the time constant τ_2 and the steady state capacitor voltage $v_2 = v(\infty)$ when the switch is closed.

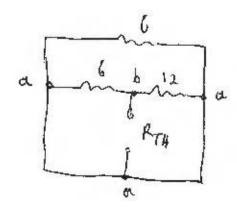
C1:6 nF





$$U = 60. \frac{12}{6+12} = 40$$

T, = RTH. C, => T = 27 ms



$$T_1 = R_{Th} \cdot C_1 \Rightarrow T_2 = 24 \text{ mB}$$