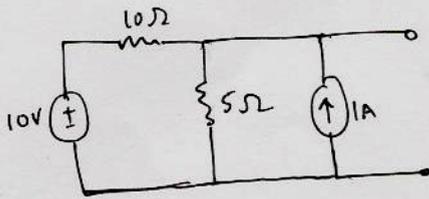
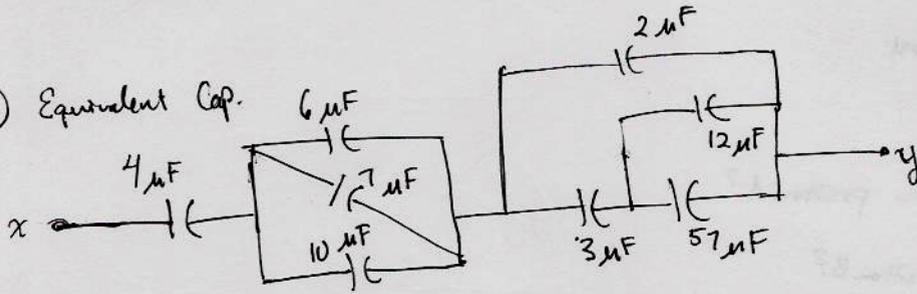


① Find the Thevenin equivalent circuit for

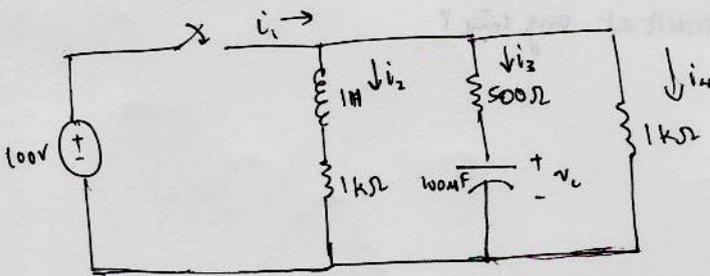


② Equivalent Cap.



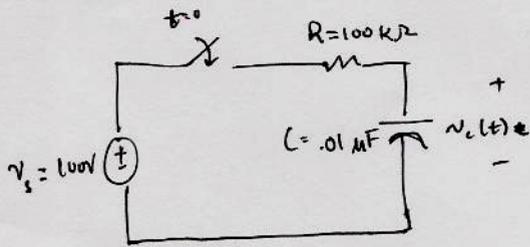
Find the equivalent capacitance between x and y.

③ DC Steady State



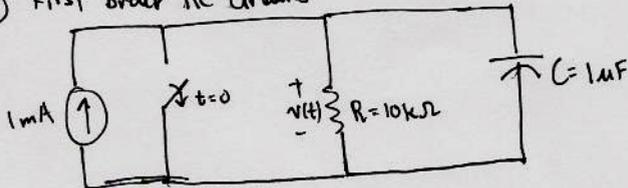
Find  $i_1, i_2, i_3, v_c$  in steady state

④ First Order RC circuits



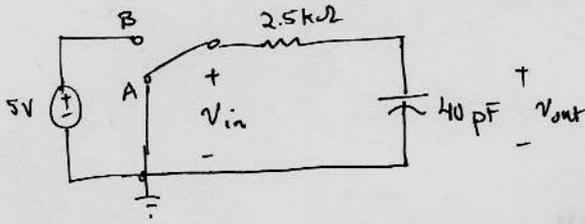
If  $v_c(0+) = -50V$ , find an expression for  $v_c(t)$ .

⑤ First order RC circuits



⑥ Fall 2002, Midterm 1.

~~Position A~~



- What is  $V_{in}$  when the switch is in position A?
- What is  $V_{in}$  when the switch is in position B?
- Suppose the switch is in position A for a long time, then instantaneously switches to position B at time  $t=0$ . Write the equation for  $V_{out}(t)$ .
- Graph  $V_{out}(t)$ .
- What is the maximum current flowing through the circuit at any time?

~~Position B~~

