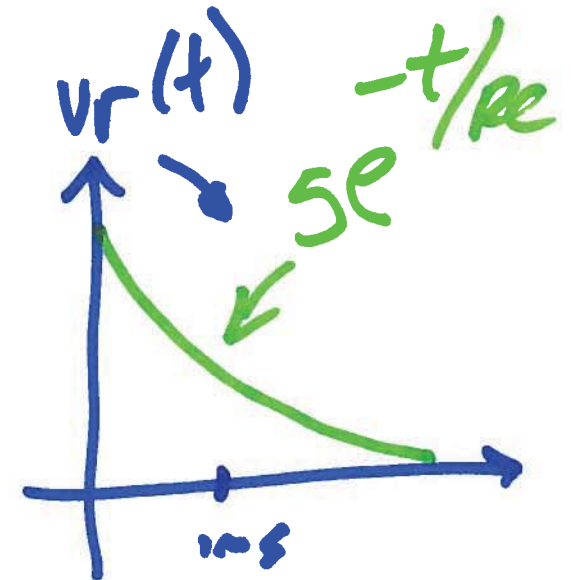
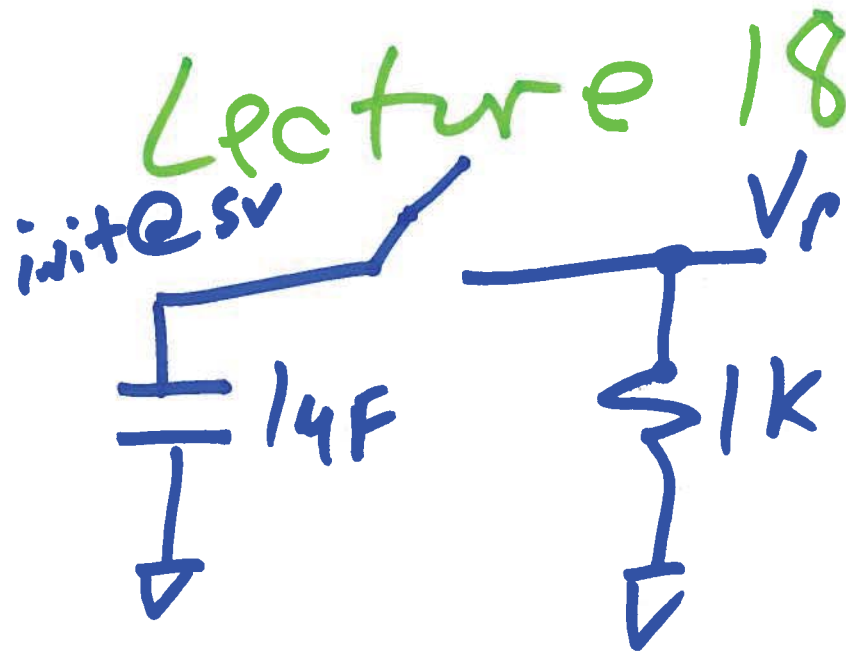
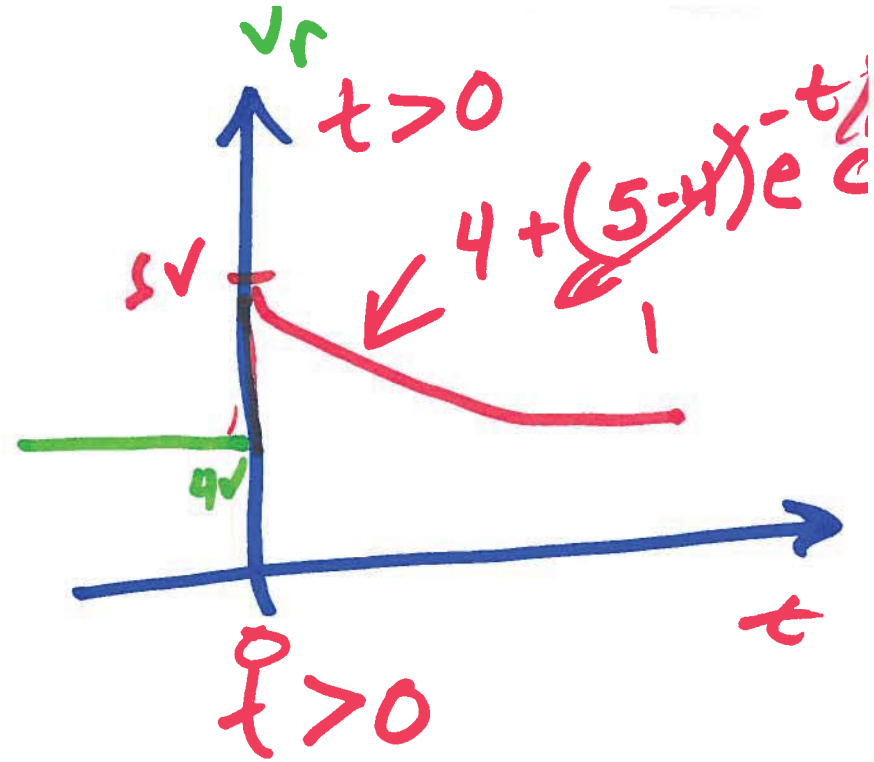
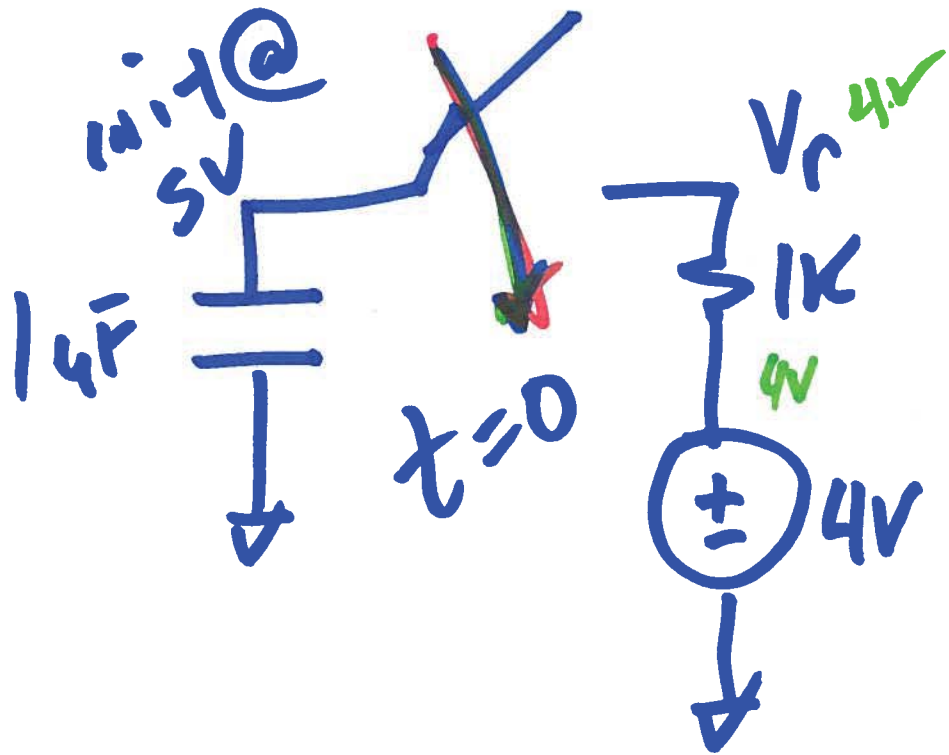


EE 220

Circuits I

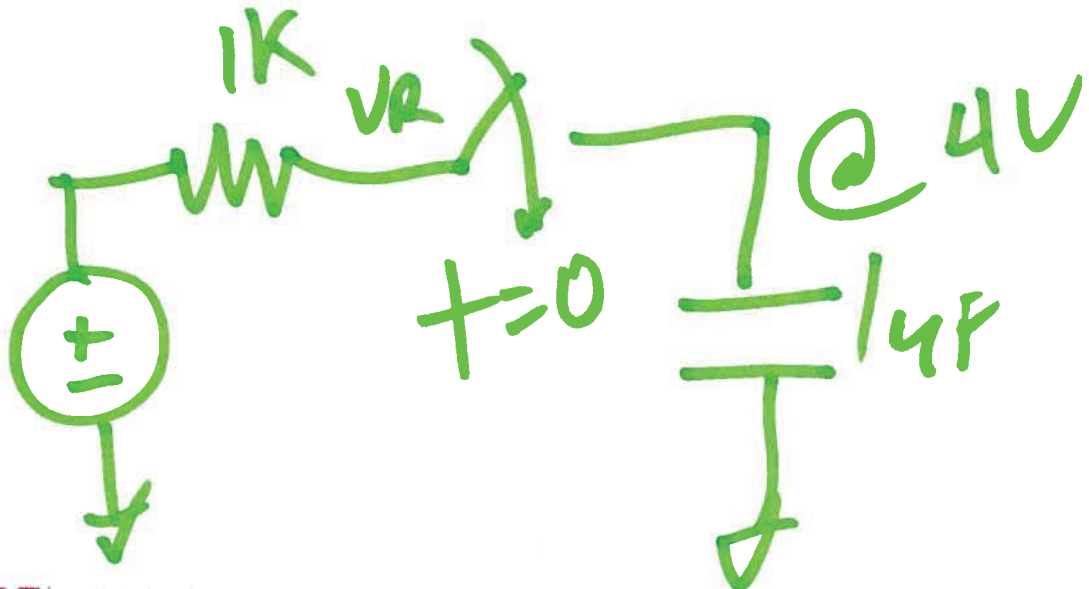
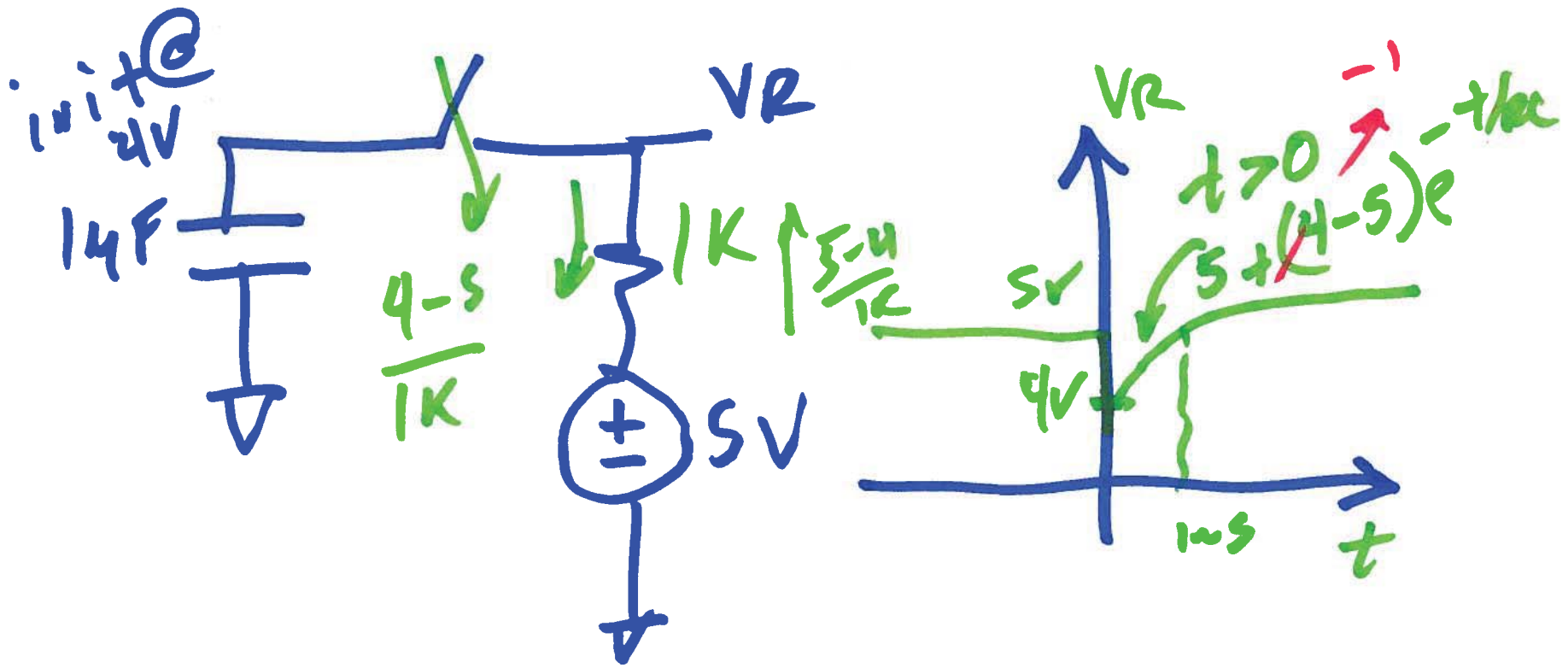


$$\tau = RC = 1e^{-3} = 1\mu s$$

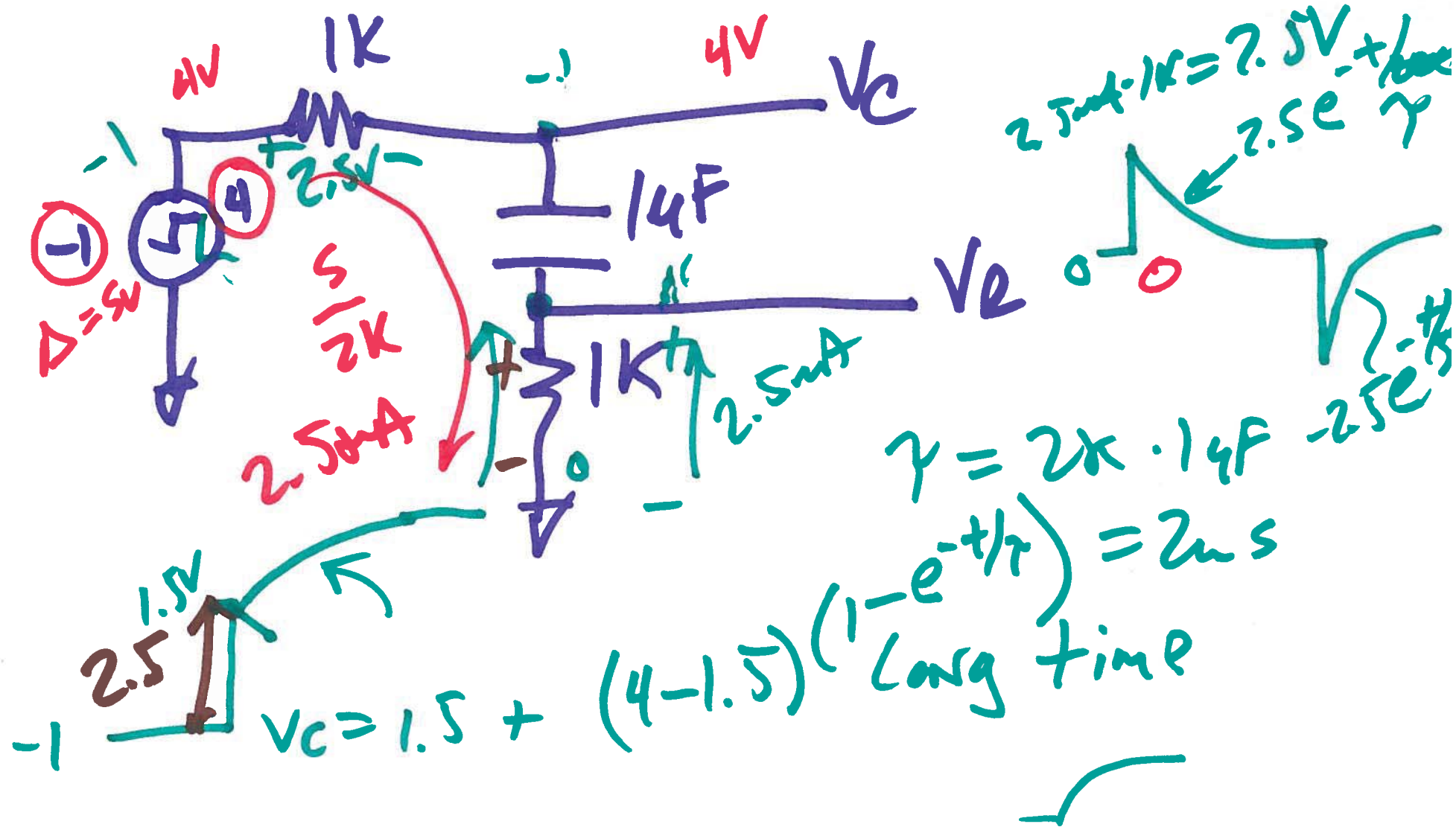


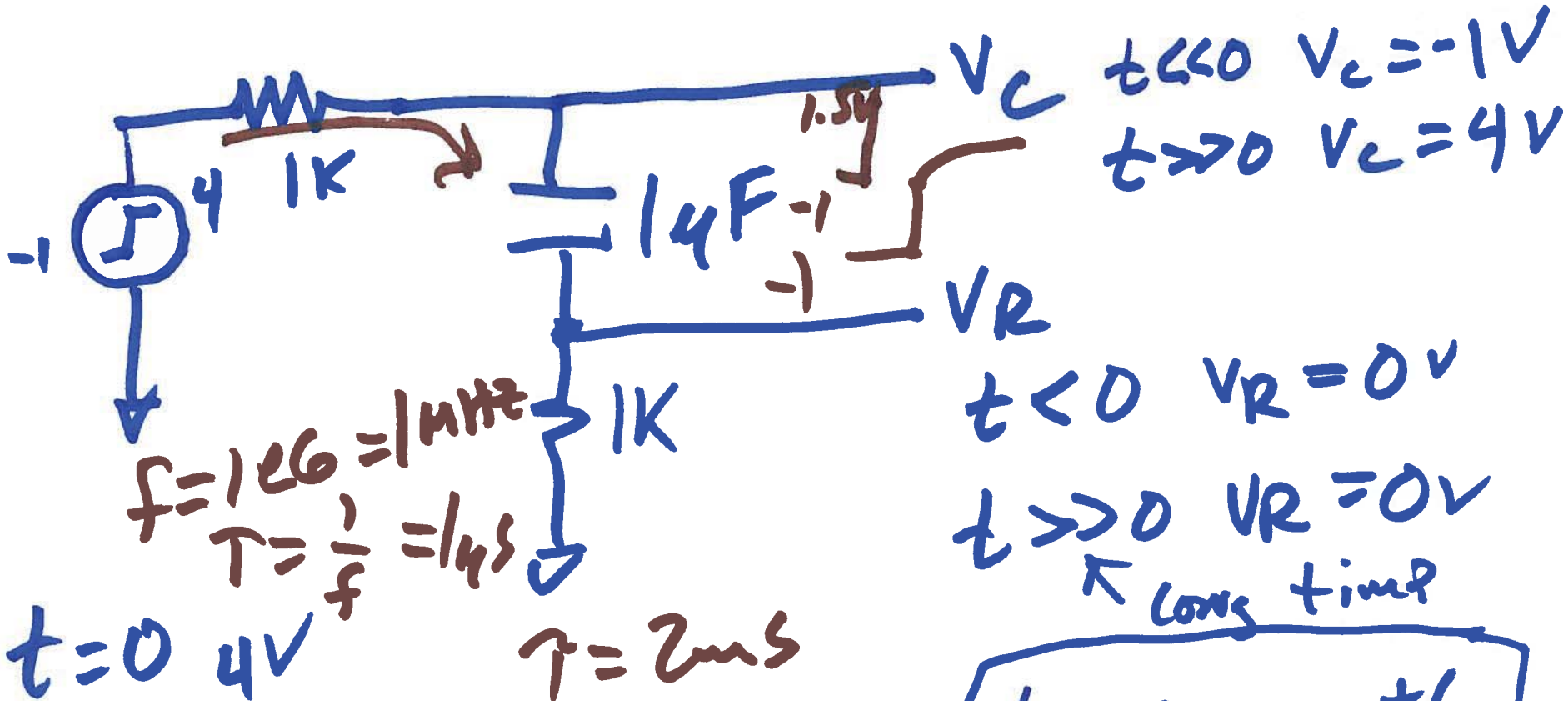
$t < 0, V_r = 4V$

2)



3)





$4\text{ V} \quad \sqrt{\Delta V} = 5\text{ V}$

$\tau = (1\text{ k} + 1\text{ k}) \cdot 1\text{ uF}$

$t > 0 \quad v_c = 2.5\text{ V} e^{-t/\tau}$

$V_c = -1 + 2.5 e^{-t/\tau}$
 $= 1.5 + (4 - 1.5) \cdot (1 - e^{-t/\tau})$

