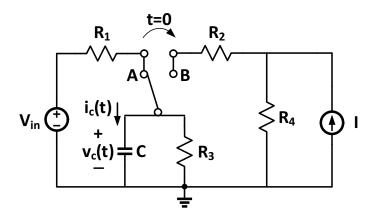
Name: UIN:

1. The switch in the circuit shown below is moved at time t=0 as shown. Compute voltage $v_c(t)$ and current $i_c(t)$ after the switch is moved. Assume $R_1=2$ k Ω , $R_2=2$ k Ω , $R_3=2$ k Ω , $R_4=4$ k Ω , C=1 μF , $V_{in}=10$ V, I=6 mA.



2. The switch in the circuit shown below is moved at time t=0 as shown. Compute voltage $v_c(t)$ after the switch is moved. Assume $R_1=1$ k Ω , $R_2=1$ k Ω , $R_3=1$ k Ω , $R_4=1$ k Ω , C=1 μF , $V_{in1}=8$ V, and $V_{in2}=4$ V.

