The switch in the circuit shown below has been closed for a long time before it opens at time $t = 0$. Find:

1) The value of $i_C(0^-)$, the current in the capacitor immediately before the switch opens,
2) The value of $i_C(0^+)$, the current in the capacitor immediately after the switch opens,
3) The expression for $i_C(t)$, $t > 0$. 

![Circuit Diagram]