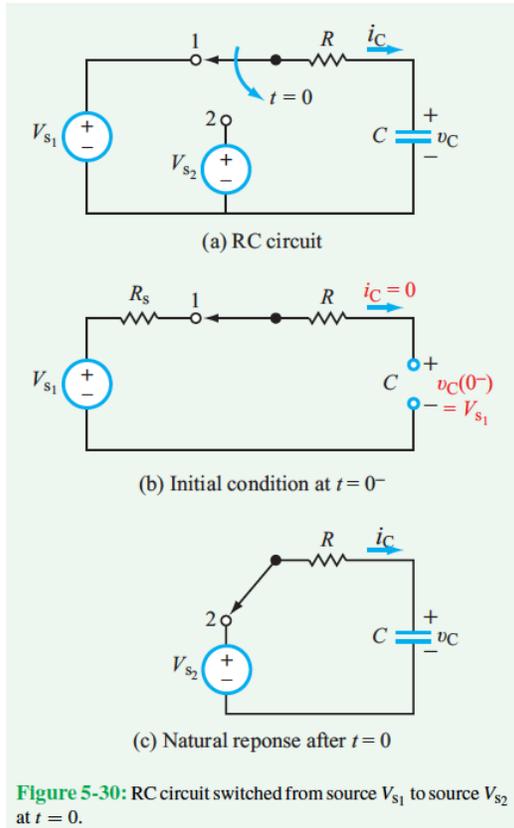


**Concept Question 5-21:** If  $V_{s2} < V_{s1}$  in the circuit of Fig. 5-30, what would you expect the direction of the current to be after the switch is moved from position 1 to 2? Analyze the process in terms of charge accumulation on the capacitor.



Since the new voltage is lower, the capacitor will need to loose charge. Hence,  $i_C$  in Fig. 5-30(c) should be counterclockwise.