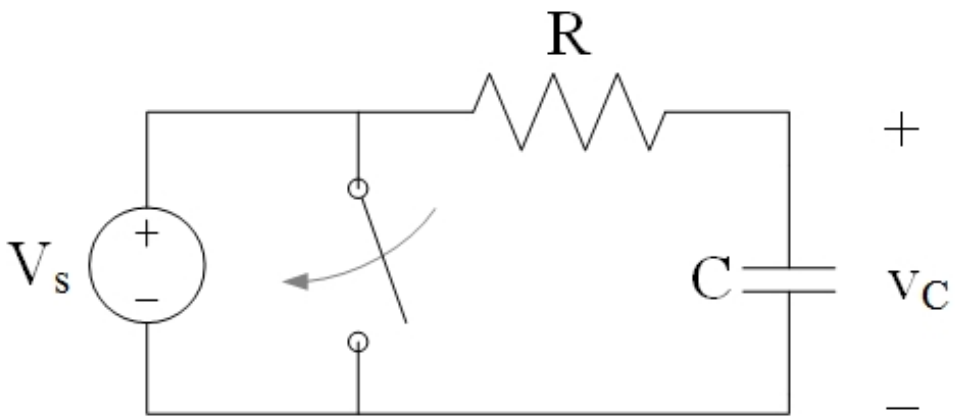
Started on	Wednesday, 15 March 2017, 11:58 AM
State	Finished
Completed on	Wednesday, 15 March 2017, 12:18 PM
Time taken	20 mins 4 secs
Grade	**100.00** out of 100.00

Question 1

Correct

Mark 100.00 out of 100.00



Quiz 6e

Given: After a long time the switch closes at t = 0.

V_s = 6 V R = 1 kΩ (kilo Ohm) C = 500 nF (nano F)

a) Determine the initial voltage across the capacitor.

$v_C(t = 0)$ = 6 ✓ V

b) Find the time domain voltage $v_c(t)$ across the capacitor for $t \geq 0^+$.

$v_C(t \geq 0)$ = 6 ✓ exp(-2000 ✓ t) Volts

Correct

Marks for this submission: 100.00/100.00.