

# Top Hat Question

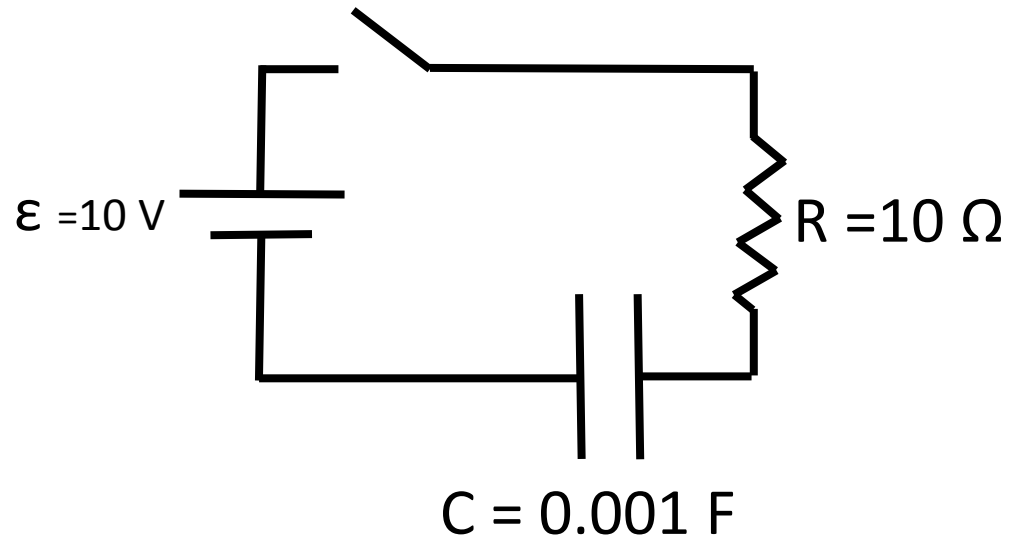
An RC circuit is shown below. Initially the switch is open and the capacitor is uncharged. At time  $t=0$ , the switch is closed. What is the voltage across the capacitor *immediately* after the switch is closed (time =  $0+$ )?

A. 0.0 V

B. 10 V

C. 5.0 V

D. 1.0 V



# Top Hat Question

An RC circuit is shown below. Initially the switch is open and the capacitor is fully charged. At time  $t = 0$ , the switch is closed.

How much charge is left on the capacitor plates after  $t = 10 \text{ ms}$ ?

- A.  $0.67 \mu\text{C}$
- B.  $14 \mu\text{C}$
- C.  $37 \mu\text{C}$
- D.  $4.5 \text{ nC}$

