

INITIAL CONDITIONS IN NETWORKS

Ex-1

At $t = 0^-$,

$$v_c(0^-) = 0$$

Voltage across a capacitor does not change instantaneously.

$$\therefore v_c(0^-) = v_c(0) = v_c(0^+) = 0$$

At $t = 0^+$ For $t > 0$,

$$-V + Ri(t) + v_c(t) = 0 \quad \text{--- (1)}$$

At $t = 0^+$,

$$-V + Ri(0^+) + v_c(0^+) = 0$$

$$\Rightarrow i(0^+) = \frac{V}{R} = \frac{100}{1000} = 0.1 \text{ Amp.}$$

From equation (1),

$$-V + Ri(t) + v_c(t) = 0$$

$$-V + Ri(t) + \frac{1}{C} \int i(t) dt = 0$$

Differentiating both sides,

$$R \frac{di(t)}{dt} + \frac{1}{C} i(t) = 0 \quad \text{--- (2)}$$

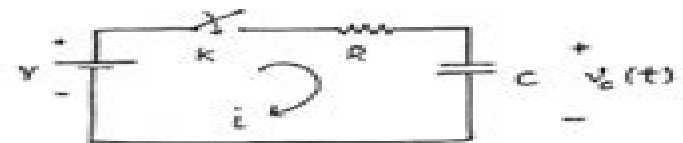
At $t = 0^+$,

$$R \frac{di}{dt}(0^+) + \frac{1}{C} i(0^+) = 0$$

$$\Rightarrow R \frac{di}{dt}(0^+) = \frac{-0.1}{1 \times 10^{-6}} = -100000$$

$$\Rightarrow \frac{di}{dt}(0^+) = \frac{-100000}{1000} = -100 \text{ amp/sec.}$$

(1)



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C Cleary



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