

EE 2240  
**Problem #04**

The capacitor current,  $i_C(t)$ , in the circuit shown below is

$$i_C(t) = 50e^{-5t} \mu\text{A} \quad \text{for } t \geq 0.$$

Determine the value of  $R$  and the initial value of  $v_C(t)$ .

