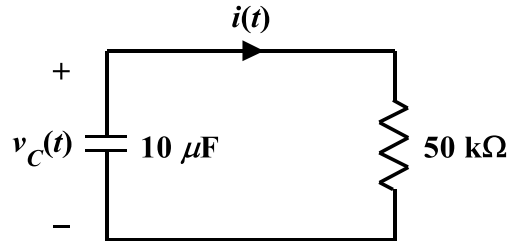


EE 2240
Problem #11

Given the RC circuit shown below:



- Find $v_C(t)$ for $t \geq 0$, if $v_C(0) = 40 \text{ V}$.
- Find $i(t)$ for $t \geq 0$.
- Use PSpice and PROBE to plot the power absorbed by the resistor, $p(t) = v_C(t) \times i(t)$, over a time span equal to $5 \times \tau$ where τ is the time constant of the RC circuit.