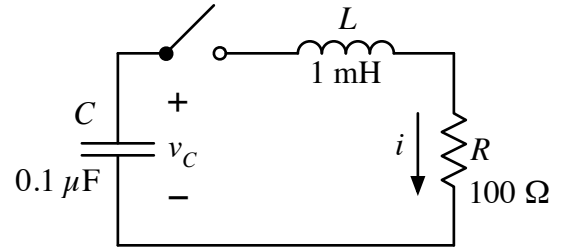


In the circuit at right, the capacitor is initially charged to 10 V. The switch has been open for a very long time and then closes at  $t = 0$ . Determine the expressions for the capacitor voltage and the current for  $t > 0$ . Write each equation in two forms, one with symbols and then again with correct values calculated for the decay constant, oscillation frequency and amplitudes. (Yes, the current expression gets a bit messy at first, but cleans up a bit once you combine terms and insert values.)



$v_C(t) =$  \_\_\_\_\_

$=$  \_\_\_\_\_

$i(t) =$  \_\_\_\_\_

$=$  \_\_\_\_\_