

Date: November 13, 2007

Term: 071

Quiz # 4

SR # \_\_\_\_\_

ID # \_\_\_\_\_

Name: \_\_\_\_\_

Sec # 1

The voltage across the capacitor in the circuit below is

given by:  $v_c(t) = \begin{cases} 0 & t < -1 \text{ \& } t \geq 1 \\ 1 - t^2 & -1 \leq t < 1 \end{cases}$  **Find:**

$i_c(t)$ ,  $V_s(t)$ ,  $w_c(t)$ .

