CASE WESTERN RESERVE UNIVERSITY

Case School of Engineering
Department of Electrical Engineering and Computer Science

ENGR 210. Introduction to Circuits and Instruments (4)

Quiz No. 9

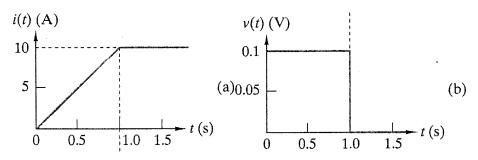
11/7/03

Name (Section): Solutions

PUT ANSWERS IN THE SPACE PROVIDED AND SHOW YOUR WORK

Problem 1 (10 points)

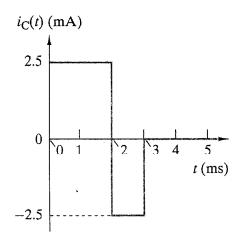
A particular element is tested and found to have i(t) and v(t) as shown here. Identify the type of element and its value.



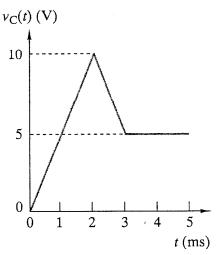
Type = <u>Inductor</u>

Value = <u>/o m H</u>

A second element is tested and found to have i(t) and v(t) as shown below. Identify the type of element and its value.



Type = <u>Capacitor</u>



Value = 0.5 *MF*

Problem 2 (10 points)

Write the expression for $v_o(t)$ for each of these circuits.

