

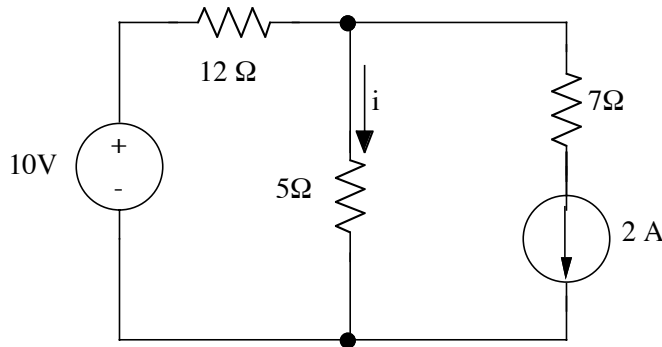
**CASE WESTERN RESERVE UNIVERSITY**  
Case School of Engineering  
Department of Electrical Engineering and Computer Science  
**ENGR 210. Introduction to Circuits and Instruments (4)**

**Quiz No. 5**

**2/20/04**

**PUT ANSWERS IN THE SPACE PROVIDED AND SHOW YOUR WORK IF APPROPRIATE. BE SURE TO STATE ANY ASSUMPTIONS**

1. (10 points) Using superposition and observing the given direct for  $i$  determine  
(a) the current  $i_1$  through the  $5\ \Omega$  resistor from the 10 volts source.



$i_1 =$  \_\_\_\_\_

- (b) the current  $i_2$  through the  $5\ \Omega$  resistor from the 2 ampere source.

$i_2 =$  \_\_\_\_\_

Name : \_\_\_\_\_ Section: \_\_\_\_\_ CWRU e-mail: \_\_\_\_\_

2. (10 points) What is the Thevenin equivalent of the circuit shown below  
 $V_T =$  \_\_\_\_\_  $R_T =$  \_\_\_\_\_

