UNIVERSITY OF CALIFORNIA, BERKELEY

EE100 Summer 2008 Lab 1

Introduction to Circuits and Instruments Prelab

Name _____

Session/TA

1. Two resistors are connected in parallel to an ideal voltage source of 5 V. Choose the value of R_2 so that the total current going through R_1 and R_2 is 100 mA.



2. The examples given in the chart on page 4 are a 560 k Ω ± 5% 4-band resistor and a 237 Ω ± 1% 5-band resistor. Try to verify the values yourself using the steps described there.

Five the equation
$$R = \frac{V_R R_m}{V_{test} - V_R}$$
 shown in Figure 12 (a).

3. Der

4. If R_L is 150 Ω , and the signal generator display shows $V_{pp} = 1$ V, what is the actual peak to peak amplitude of the signal across R_{L} ?

