

# Component Level Laboratory

## Analog Circuits Fundamentals:

### RC Circuits Frequency Response, Multisim Workbench

#### Multisim Review

Using Multisim (Electronics Workbench), model the circuit shown below. Energize the model and using the analysis tools provided in Multisim, determine and record the following circuit parameters.

a.  $V_{R1}$  : \_\_\_\_\_

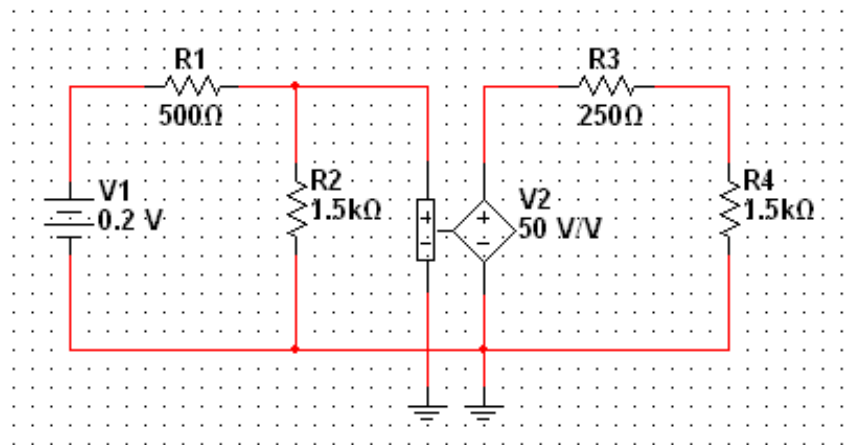
b.  $V_{R2}$  : \_\_\_\_\_

c.  $V_{R3}$  : \_\_\_\_\_

d.  $V_{R4}$  : \_\_\_\_\_

e.  $I_{R1}$  : \_\_\_\_\_

f.  $I_{R4}$  : \_\_\_\_\_





**Multisim review:** If you need refreshment of the Multisim Electronic Workbench, please go through following tutorials. You will build Multisim models for the circuits shown here and use Multisim analysis tools to measure the circuit parameters. (Rank the helpfulness of the material from 1(not helpful) to 5 (very helpful)).

**Some useful links:**

[http://www.physics.udel.edu/~nowak/phys645/EWB\\_tutorial.pdf](http://www.physics.udel.edu/~nowak/phys645/EWB_tutorial.pdf)

<http://csserver.evansville.edu/~blandfor/WrkBnchTutorial.pdf>

<http://www.engr.newpaltz.edu/~bai/CSE45208/ewb.pdf>