Lab #3

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

Construct a combination circuit using 4 resistors of your choice, 1 in series, 3 in parallel. Answer the following questions and complete the table attached using measured values and calculated values.

Draw a schematic diagram of the circuit.

Questions :

1. What remains the same in a parallel circuit?

2. What changes in a parallel circuit?

3. What are the formulas for calculating:

A. total resistance

B. total voltage

C. total current

Calculated Values

|  |  |  |  |
| --- | --- | --- | --- |
| Resistors | R | I | E |
| R1 |  |  |  |
| R2 |  |  |  |
| R3 |  |  |  |
| Total |  |  | 5V |

|  |  |  |  |
| --- | --- | --- | --- |
| Resistors | R | I | E |
| R1 |  |  |  |
| R2 |  |  |  |
| R3 |  |  |  |
| Total |  |  | 5V |

Measured Values