

## **Basic Of Electronics**

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**Tr Eraste NIZEYIMANA**

1. A battery with a terminal voltage of 9 V is connected to a circuit consisting of four  $20\Omega$  and one  $10\Omega$  resistors all in series.

- a) Draw the circuit of the scenario
- b) Calculate the equivalent resistance of the circuit.
- c) Calculate the current through each resistor.

2. Three resistors  $R_1=1.00\Omega$ ,  $R_2=2.00\Omega$ , and  $R_3=2.00\Omega$ , are connected in parallel. The parallel connection is attached to a  $V=3.00\text{V}$  voltage source.

- a) What is the equivalent resistance?
- b) Find the current supplied by the source to the parallel circuit.

***Good Luck!!!***