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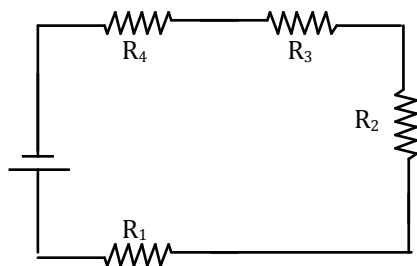
Circuitry II

1. Three resistors of 100 , 140 , and 80 are placed in a series circuit.

A. Find the equivalent resistance

B. If you were to place these three resistors in parallel, what would the equivalent resistance be?

2. 3. The circuit below has a 24 V battery connected to resistors $R_1 = 6$, $R_2 = 10$, $R_3 = 9$, $R_4 = 5$. Calculate the equivalent resistance and the net current of the circuit.



3. Three resistors are connected in series with an 18 V battery. $R_1 = 2$, $R_2 = 4$, $R_3 = 6$

A. Draw a schematic diagram.

B. Determine the equivalent resistance, and net current for the circuit.

C. Determine the current in each resistor, and the potential difference across each resistor. (*Each resistor should have the same current, and the sum of the potential differences should equal the potential difference in the battery*)