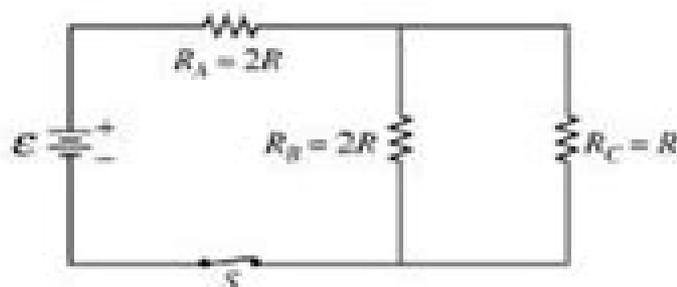


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3. (15 points)

The circuit above contains a battery with negligible internal resistance, a closed switch S , and three resistors, each with a resistance of R or $2R$.

(a)

- i. Rank the currents in the three resistors from greatest to least, with number 1 being greatest. If two resistors have the same current, give them the same ranking.

$$\text{--- } I_A \quad \text{--- } I_B \quad \text{--- } I_C$$

- ii. Justify your answers.

(b)

- i. Rank the voltages across the three resistors from greatest to least, with number 1 being greatest. If two resistors have the same voltage across them, give them the same ranking.

$$\text{--- } V_A \quad \text{--- } V_B \quad \text{--- } V_C$$

- ii. Justify your answers.

For parts (c) through (e), use $\mathcal{E} = 12 \text{ V}$ and $R = 200 \ \Omega$.

(c) Calculate the equivalent resistance of the circuit.

(d) Calculate the current in resistor R_C .

(e) The switch S is opened, resistor R_B is removed and replaced by a capacitor of capacitance $2.0 \times 10^{-6} \text{ F}$, and the switch S is again closed. Calculate the charge on the capacitor after all the currents have reached their final steady-state values.

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Annelies Wilder-Smith



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