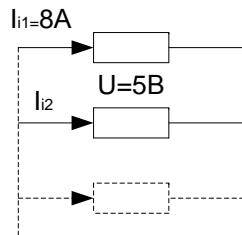


Answer on question #83319, Physics Electric Circuits

The wire in a parallel circuit carries 8.0 A of current and 5V of electricity. What is a) total and individual current; b) total and individual voltages; c) total and individual resistances

Solution



$$I_{\Sigma} = 8 + I_{i2} + \dots$$

$$I_{i1} = 8 A$$

$$U_{\Sigma} = U_i = 5 V$$

$$R_{i1} = \frac{U_{i1}}{I_{i1}} = \frac{5}{8} = 0.625 \text{ Ohm}$$

$$R_{\Sigma} = \frac{1}{\frac{1}{0.625} + \frac{1}{R_{i2}} + \dots}$$

Answer provided by <https://www.AssignmentExpert.com>

