

Answer on Question 65664, Physics, Electric Circuits

Question:

A $2.0\ \Omega$, a $13.0\ \Omega$ and $16.0\ \Omega$ resistor are connected in series with a $24.0\ V$ battery. Calculate the equivalent resistance.

Solution:

We can find the equivalent resistance of a series combination of three resistors from the formula:

$$R_{eq} = R_1 + R_2 + R_3 = 2.0\ \Omega + 13.0\ \Omega + 16.0\ \Omega = 31\ \Omega.$$

Answer:

$$R_{eq} = 31\ \Omega.$$

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