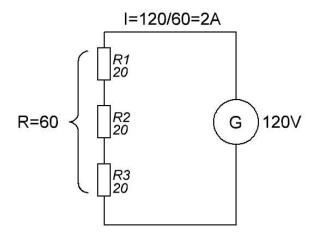
Question #76619

There are three 20.0 ohm resistors in series across a 120.0-V generator. What is the equivalent resistance of the circuit?

What is the current in the circuit?

What is the total voltage drop across the circuit?

Solution.



- 1) Equivalent resistance of the circuit is $R1+R2+R3+R_G=60+R_G$ Ohm. R_G has very low resistance, therefore we can neglect this resistance. To calculate R_G resistance to insufficient data.
 - 2) Current in this circuit $I = \frac{U}{R} = \frac{120}{60} = 2A$
 - 3) To calculate the voltage drop in the circuit, there is no data on internal resistance R_G.

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