**Physics 3**

The current passing through a resistor with resistance 50ohm is 10A.Find voltage across it.

**Explanation:**

We are given resistance and current across a resistor. The program calculates the voltage across the resistor, as output, by multiplying resistance by current.

**INPUT:**

#include<iostream>

#include<conio.h>

using namespace std;

main()

{

//Question

//The current passing through a resistor with resistance 50ohm is 10A.Find voltage accross it.

int current=10;

int resistance=50;

float voltage=current \* resistance;

cout<<"Given: \n\n";

cout<<"Current="<<current<<" A \n";

cout<<"Resistance="<<resistance<<" ohm \n\n";

cout<<"To find: \n\n";

cout<<"Voltage=? \n\n";

cout<<"Sol: \n\n";

cout<<"Voltage=Current \* Resistance \n";

cout<<"Voltage="<<current <<" \* "<<resistance<<endl;

cout<<"Voltage="<<voltage<<" V \n";

getch();

return 0;

}

**OUTPUT:**

