Ohm's Law Ms. McDade

The relationship between voltage, current and resistance is shown in this graphic:



1) A smartphone with a resistance of 35 ohms has a current of 0.25 amps flowing through it. Calculate how many volts supply the smart phone.

2) A 120-volt power source supplies a computer with a resistance of 210 ohms. What is the current flow of the circuit?

3) Calculate the resistance of the following circuit diagram:



- 4) What amount of voltage would you need to run a current of 1.2 amps through a 250-ohm resistor?
- 5) Using the given variables, calculate the unknown value:

a)	V =10 V	R = 5 Ω	=/	Ą
b)	V = 3.5 V	R = 10 Ω	l =/	A
c)	V = 10 V	I = 2 A	R =	Ω
d)	V = 3.5 V	I = 0.5 A	R =	Ω
e)	I = 11 A	R = 3 Ω	V =	_ v
f)	I = 7 A	R = 4.5 Ω	V =	V