Consider the following components in a circuit

Resistor A is a 3 Ohm resistor; Resistor B is a 6 Ohm resistor; a 9 Volt battery Helpful fractions information 1/3 + 1/6 = 3/6=1/2

Part I. Resistor A and Resistor B are connected in series to the battery.

1. What is the potential difference provided by the battery?
2. What is the equivalent resistance of the circuit?
3. What is the current entering Resistor A? (it is ok to leave your answer in the form of a fraction) **INCLUDE units**
4. What is the current entering Resistor B?
5. What is the current exiting Resistor B?
6. What is the voltage drop across Resistor A?
7. What is the voltage drop across Resistor B?

Part II. Resistor A and Resistor B are connected in parallel to the battery.

1. What is the potential difference provided by the battery?
2. What is the equivalent resistance of the circuit?
3. What is the current entering Resistor A? (it is ok to leave your answer in the form of a fraction) **INCLUDE units**
4. What is the current entering Resistor B?
5. What is the current exiting Resistor B?
6. What is the voltage drop across Resistor A?
7. What is the voltage drop across Resistor B?