Ohm's Law Practice Problems

Using Ohm's Law, solve the following problems. Be sure to show all work. Formula: V (voltage)= I (current) X R (resistance)

1. What is the voltage if a resistance of 25 Ω produces a current of 250 amperes?

2. What is the current produced by a voltage of 240 V through a resistance of 0.2 $\Omega?$

3. What voltage is necessary to produce a current of 200 amperes through a resistance of 100 $\Omega?$

4. What resistance would produce a current of 120 amps from a 6-V battery?

5. What is the current produced by a 9-V battery flowing through a resistance of 200 $\Omega?$

6. What voltage produces a current of 500 amps with a resistance of 50 $\Omega?$

7. What resistance would produce a current of 200 amps with a voltage of 2,000 V?

8. What is the current produced with a 9-V battery through a resistance of 100 $\Omega?$