15. In the circuit below, R₁ is connected to another circuit element, and the voltage and current are shown:

\[ I = 1 \text{mA} \]
\[ V = 5 \text{V} \]

\[ R₁ 

(a) From the information given, circuit element X is:
1. A voltage source
2. A current source
3. Can't tell

(b) The size of resistor R₁ is ________.

Ohm's Law: \[ V = IR \]
\[ R = \frac{V}{I} = \frac{5}{1 \text{mA}} = 5000 \text{Ω} \]

(c) The power dissipated in R₁ is ________.

Watt's Law: \[ P = IV \]
\[ P = IV = 1 \text{mA} \times 5 \text{V} = 5 \text{mW} \]