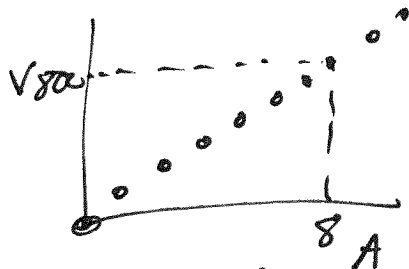


Ch. 9, Prob 53

Estimate the resistance of the resistor

By Ohm's Law

$$V = I \cdot R$$



With V ~~the~~ plotted on the vertical axis
and I plotted on the horizontal axis

The ~~res~~ resistance is just the slope
of the line

$$\text{for } \Delta V = 800 \text{ V}$$

$$\text{and } \Delta I = 8 \text{ A}$$

$$\text{Then } R = \frac{\Delta V}{\Delta I} = \frac{800 \text{ V}}{8 \text{ A}} = \boxed{100 \Omega}$$