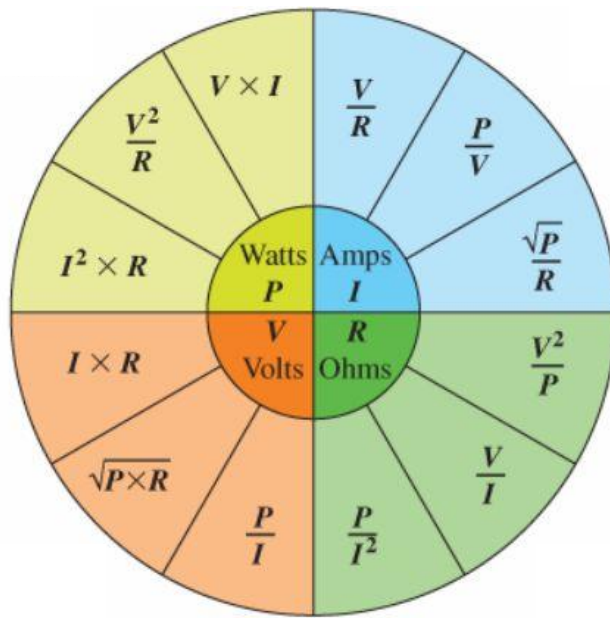


Chapter 10 Problems part 2



Please turn in problems on a separate sheet of paper, & show your work.

36. Resistors of $10\ \Omega$ and $30\ \text{ohms}$ are connected in **series** to a $\Delta V = 120\text{V}$ source.

- What is the current flowing in the $30\ \Omega$ resistor?
- What is the I in this R when the same resistors are connected in **parallel**?

38. **Most of the body's resistance is in its skin.**

When wet, salts go into **ion** form, the *resistance is lowered*.

Compare the I that would pass through a person who comes into contact with a $\Delta V = 240\text{V}$ source when there is:

(a) dry itchy flea stricken skin *resistance* of: $110,000\ \Omega$.

(b) a wet skin (*moist and meaty*) R of: $300\ \text{ohms}$ & ambient temperature is $98\ \text{deg. F}$ & relative humidity is $95\ \%$?