AC Circuit Application (9)



In the two ac circuits shown the ammeter and voltmeter readings are rms values.

- (a) In the circuit on the left, find the resistance R of the resistor, the capacitance C of the capacitor, the impedance Z of the two devices combined, and the voltage \mathcal{E}_{rms} of the power source.
- (b) In the circuit on the right, find the capacitance C of the capacitor, the inductance L of the inductor, the impedance Z of the two devices combined, and the rms value of the current I_4 .



