

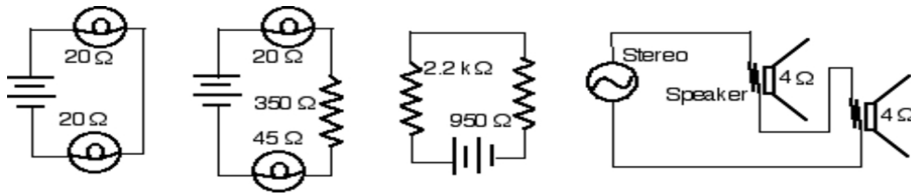
Electric Circuits Worksheet 5 Summary

Resistance is measured in units of Ohms. The symbol for Ohms is the Greek letter Omega, Ω .

In **series**, the **resistance** is additive: $R_{\text{total}} = R_1 + R_2 + R_3 + \dots$

In **parallel**, the **conductance** (the reciprocal of resistance) is additive: $1/R_{\text{total}} = 1/R_1 + 1/R_2 + 1/R_3 + \dots$

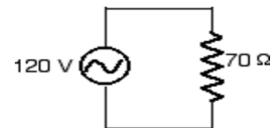
1. Find the total resistance of the following series circuits:



2. Find the total resistance of the following parallel circuits:



3a. Find the current in this circuit:



b. How much power is delivered to the resistor