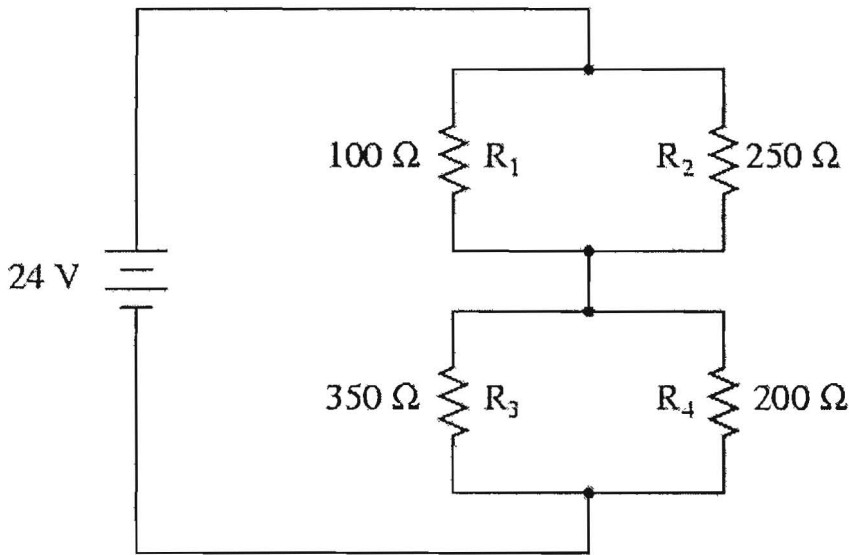


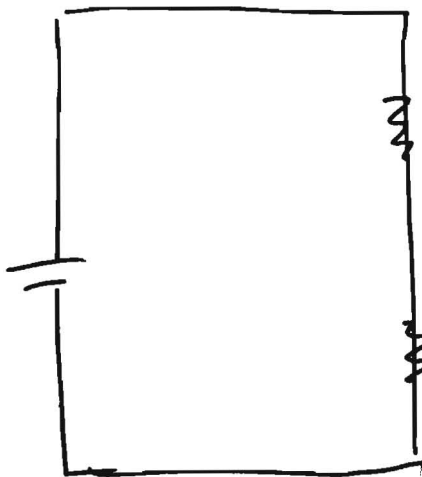
Electricity ~~1~~ 2

Practice Problem

- In the circuit below, solve for the voltage and current across each resistor and determine the total resistance and total current running through the battery.



$V_1 = 8.627V$
 $I_1 = .08627A$
 $V_2 = 8.62V$
 $I_2 = .034502A$
 $V_3 = 15.3745V$
 $I_3 = .0439A$
 $V_4 = 15.3745V$
 $I_4 = .07687A$
 $R_t = 198.7 \Omega$
 $I_t = .1208A$



$I = 0.1208A$
 $R_{12} = 71.4285 \Omega$
 $V = 8.627V$
 $R_{34} = 127.2727 \Omega$
 $V = 15.3745V$
 $I = 0.1208A$