1) What is the total resistance of the circuit?
2) What is the total current for the circuit?
3) What is the voltage drop over the left resistor?
4) What is the total power of the circuit in Watts?
Parallel Circuit

• What is the current flowing through the left resistor?
• What is the total resistance of the circuit?
• What is the voltage drop across the right resistor?
• What is the total power of the circuit in Watts?
Paying for Energy

An electric stove that draws 30 A from a 220V outlet is used to simmer a pot of stew. It takes 3 hours to simmer the stew.

a) Calculate the power of the stove in Watts

b) Convert the power into kilowatts.

c) Calculate the number of kilowatt-hours used.

d) Calculate the cost of using the stove if PSE&G charges you $0.21/kWh.