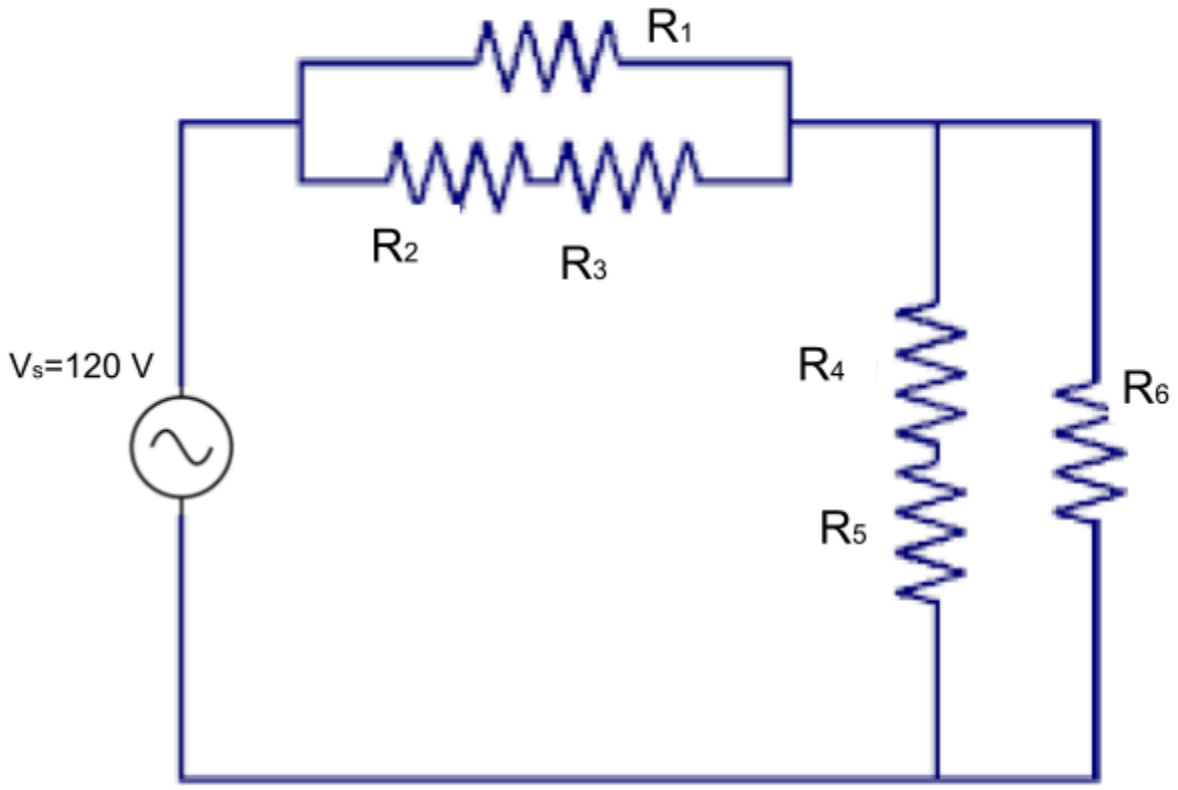
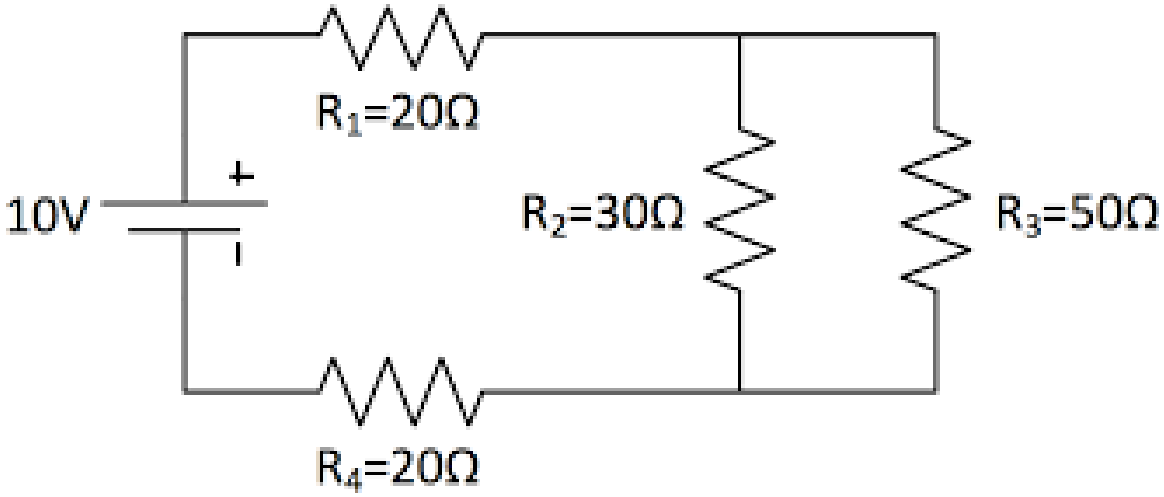
Name_____



For the following schematic above, fill in the table that describes the flow of electricity through the pathway. Show all of your work on a **separate piece of paper.** It may be useful to make a reduced schematic diagram. *Hint: to help get you started, make a reduced schematic diagram and put R2 and R3 together in series. After that, make a second reduced diagram and make resistor R123.*

Resistor number	Voltage (V)	Current (A)	Resistance (Ω)
1	97	0.6468	150
2	44.11	0.4411	100
3	52.93	0.4411	120
4	7.94	0.1687	47
5	15.04	0.1687	89
6	22.98	0.9192	25
Total	120	1.0879	110.31

Name_____



For the following schematic above, fill in the table that describes the flow of electricity through the pathway. **Show all of your work on a separate piece of paper**. It may be useful to make a reduced schematic diagram. *Hint: to help get you started, find the equivalent resistance for R2 & R3*

Resistor number	Voltage (V)	Current (A)	Resistance (Ω)
1	3.4	0.17	20
2	3.2	0.1067	30
3	3.2	0.064	50
4	3.4	0.17	20
Total	10	0.17	58.75