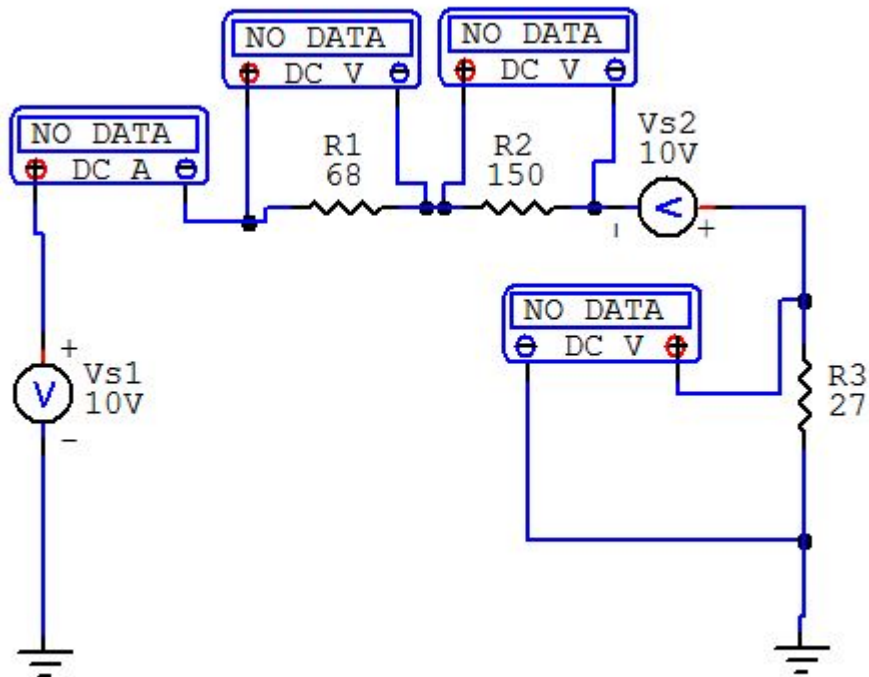


Week 3 KVL laboratory

You will use Multisim (circuit maker 2000) and build the circuit as shown below.



Kirchoff's Voltage Law states that the the algebraic sum of the potential rises and drops in a circuit equals 0, or put more simply, the voltage drops will add to equal the supply voltage.

So, in the above circuit, there are two voltage sources and three resistors.

Before you power the multisim circuit, do you own calculations first:

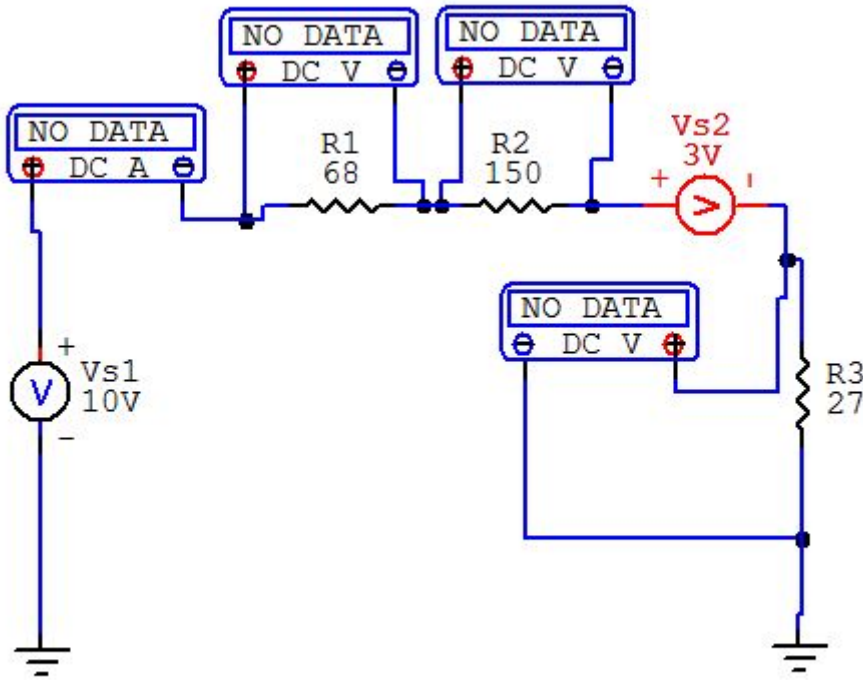
- Resistance Total
- Voltage Total
- Current Total
- VR1
- VR2
- VR3

Sum of $V_{R1} + V_{R2} + V_{R3}$

Does the sum of the voltage drops add to equal your supply voltage?

Now run the simulation and check Multisim against your own results.

Circuit 2



Modify your circuit to that of circuit two above. Re-do your results as per the above circuit for question 1.

Compare but be careful about the polarities of the voltage sources.

Power the circuit and check your results.