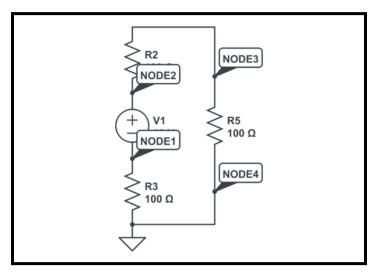
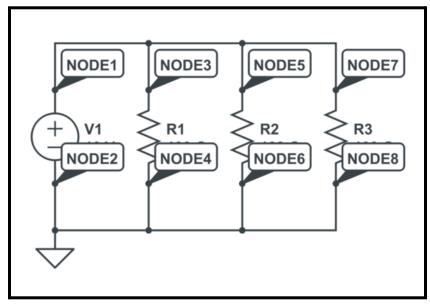
1. Resistors in Series

- c. Node 1 -5V, Node 2 5V, Node 3 0V, Current 50 mA
- d. Node 1 -3.33V, Node 2 6.67V, Node 3, 3.33V, Node 4 0V, Current 33.33 mA



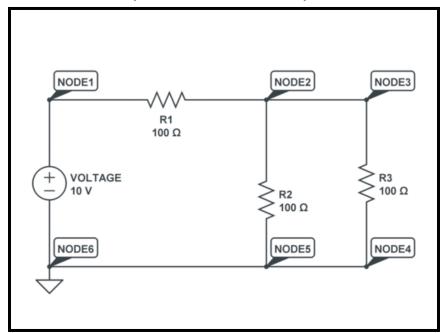
2. Resistors in Parallel

- c. Node 1: 10V and 200mA, Node 2: 0V and 200mA, Node 3: 10V and 100 mA, Node: 4 0V and 100mA, Node 5: 10V and 100mA, Node 6: 0V and 100mA.
- d. Node 1: 10V and 300mA, Node2: 0V and 200mA, Node3: 10V and 100mA, Node4: 0V and 100mA, Node 5: 10V and 100mA, Node 6: 0V and 100mA, Node 7: 10V and 100mA, Node 8: 0V and 100mA



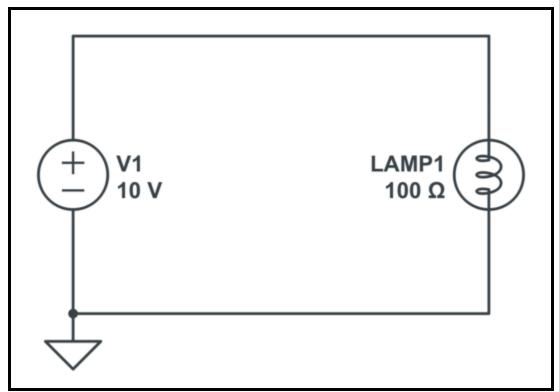
3. Resistors in Series and Parallel

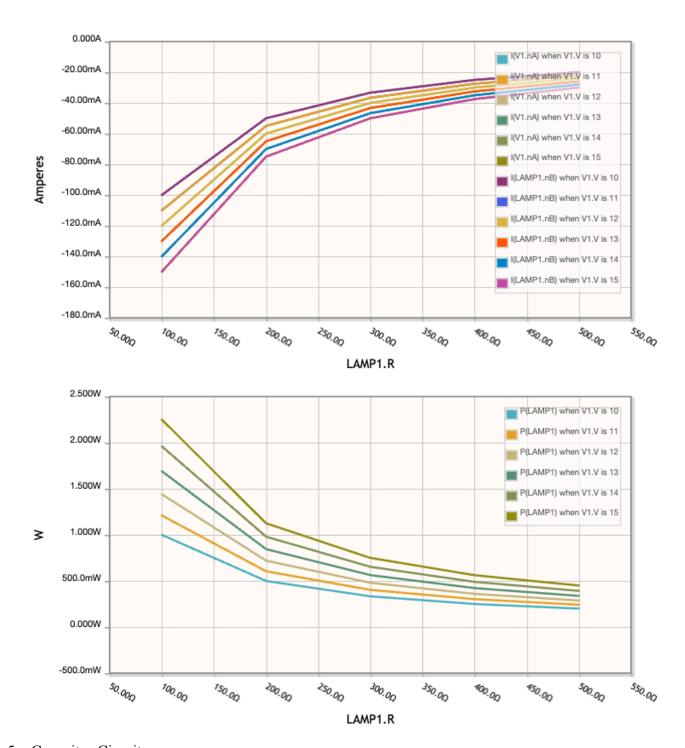
c. Node 1: 10V and 66.6 mA, Node 2: 3.33V and 66.6 mA, Node 3: 3.33V and 33.3 mA, Node 4: 0V and 33.3 mA, Node 5: 0V and 33.3 mA, Node 6: 0V and 66.6 mA.



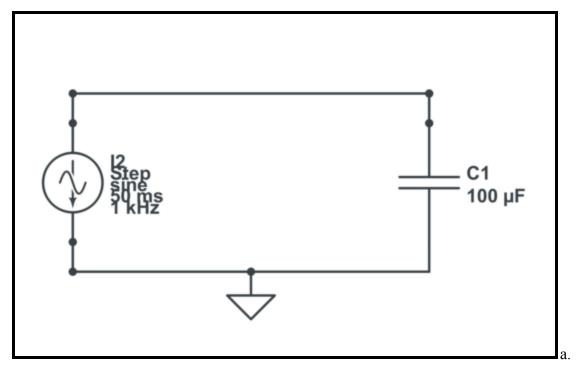
4. Powering Light Bulbs

a. 1.0 W

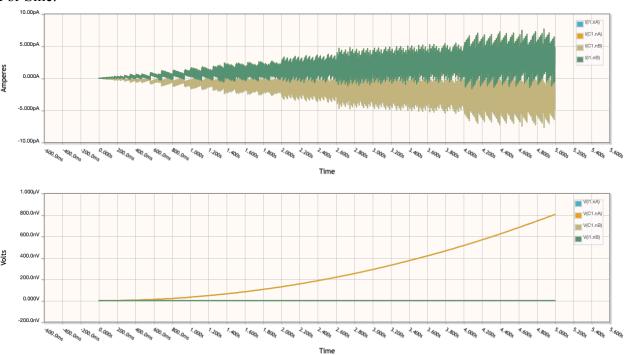




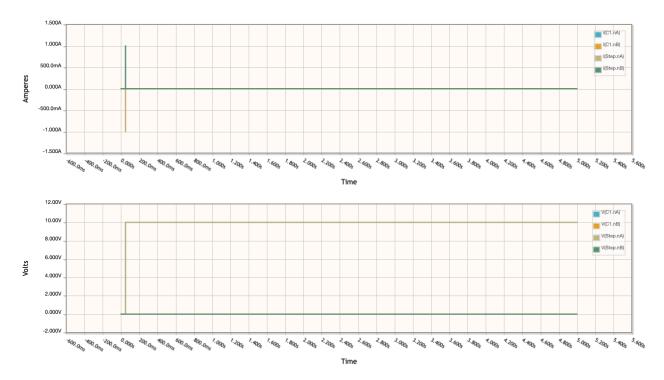
5. Capacitor Circuit Tried with several different values for the capacitor as well, saw similar trends different amounts, etc.



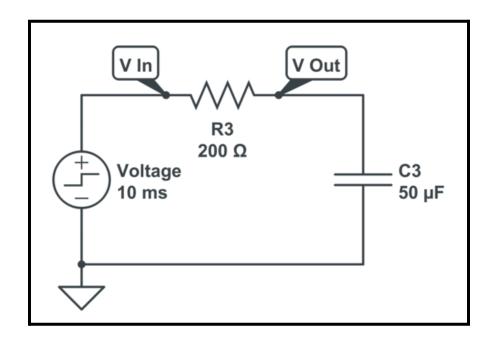
For Sine:

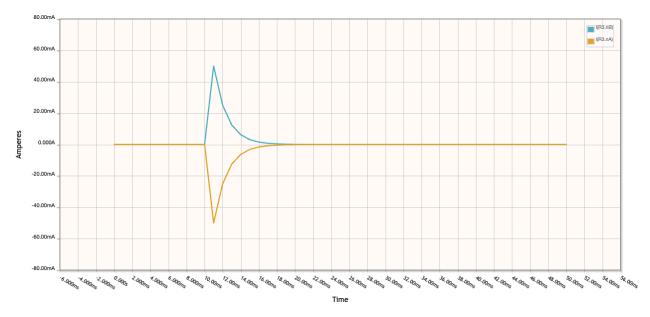


For Step:

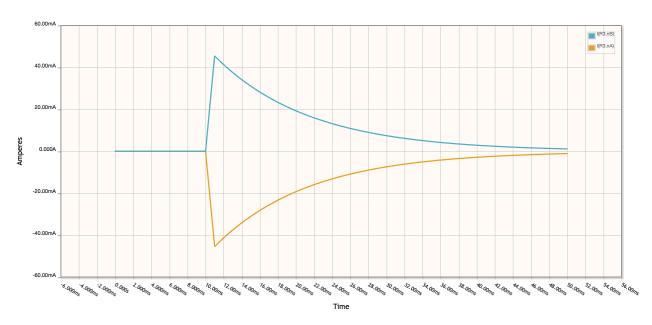


6. RC Circuit





 100Ω Resistor and $10\mu F$ Capacitor



 200Ω Resistor and $50\mu F$ Capacitor

7. RC Filter

a. Input voltage is 0V, output voltage is 0V.

