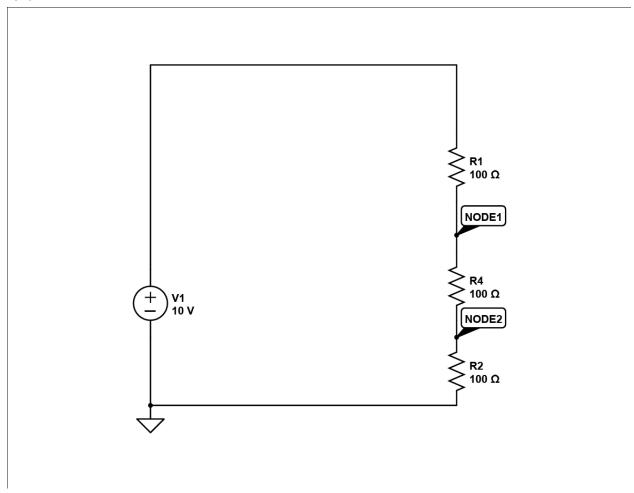
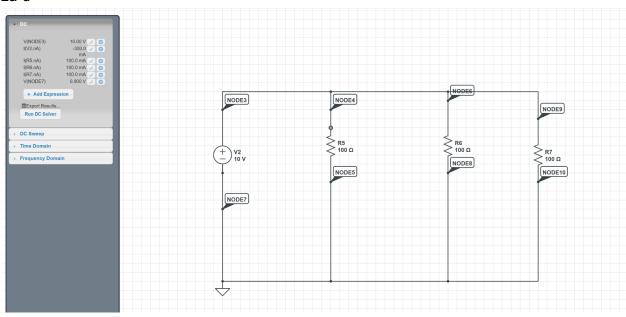
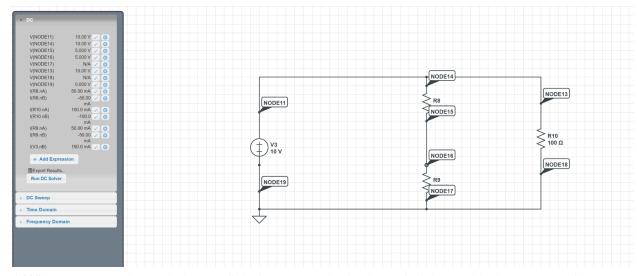
### 1a-d



## 2a-d

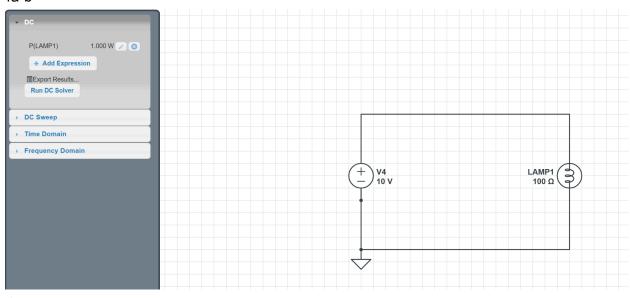


3а-с



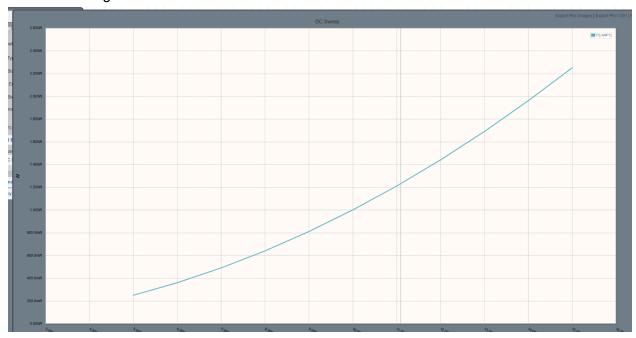
c) When compared to only in parallel, the current in the branch is less with the more resistors (higher effective resistance), the voltage is the same compared to the only parallel case. When compared to the only in series case, the current in the branch with more resistors is equal to the series circuit with the same number of resistors.

#### 4a-b

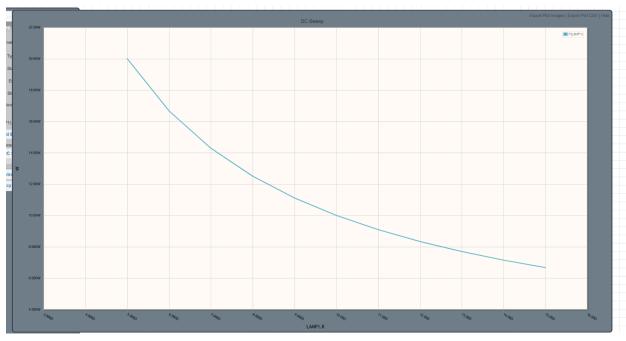


c)

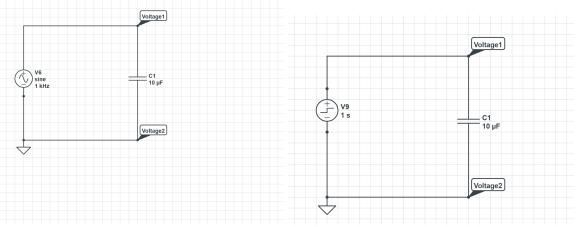
## Power vs Voltage

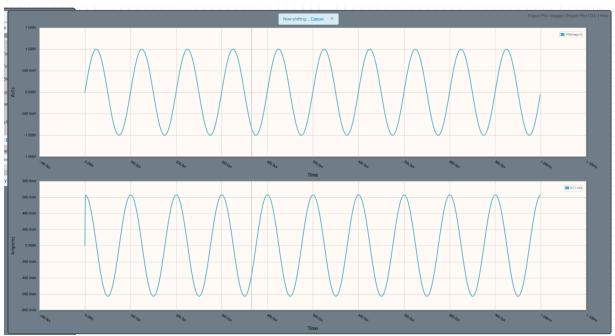


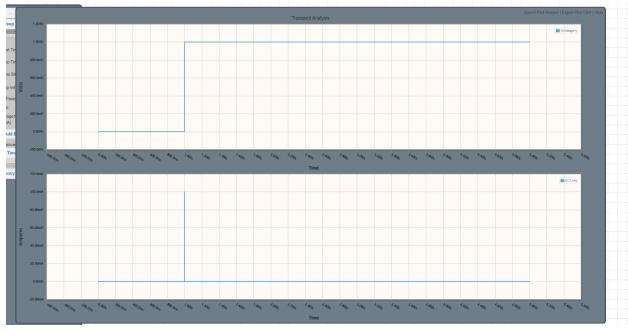
## Power vs Resistance



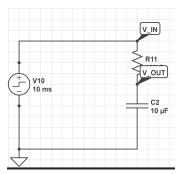
5a-b Sine:



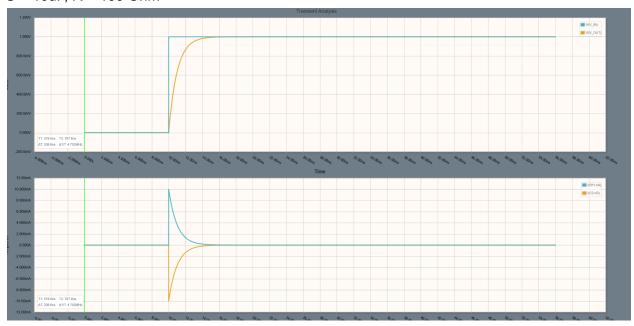




## 6а-с



# C = 10uF, R = 100 Ohm

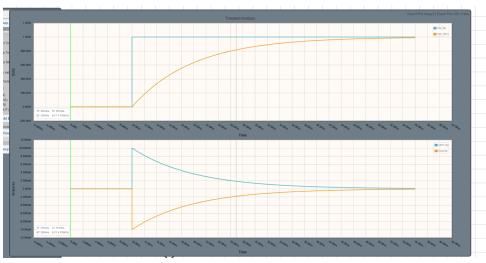


c) When decreasing the resistance, the slope of the graph becomes smaller, when increasing the capacitance, the slope decreases and vice versa.

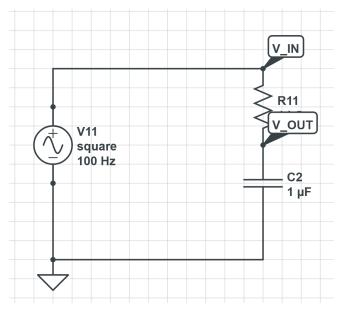
C = 10uF, R = 10 Ohm

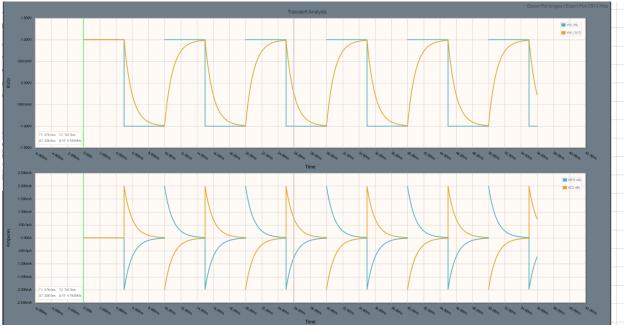


C = 100uF, R=100 Ohm



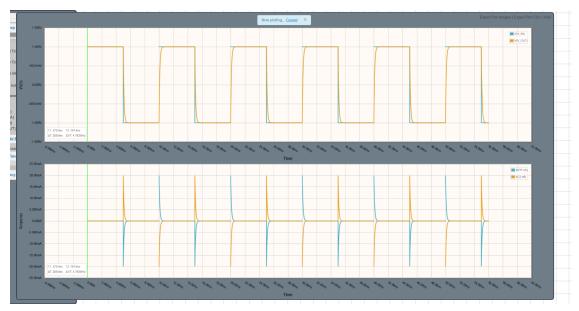
7a-b



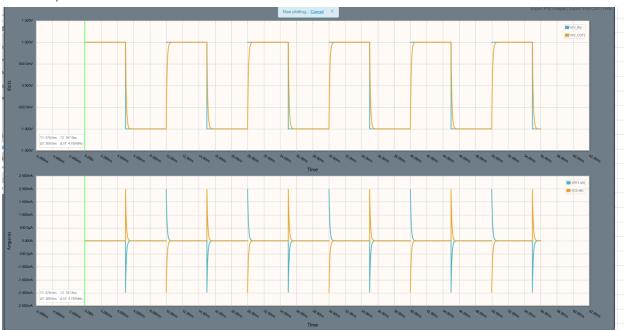


b) When decreasing the resistance, the slope increases, same with decreasing the capacitance. When increasing the voltage frequency, the slope also increases.

C = 1uF, R = 100 Ohm



C = .1uF, R = 1kOhm



C = 1uF, R = 1kOhm, Frequency = 1kHrtz

