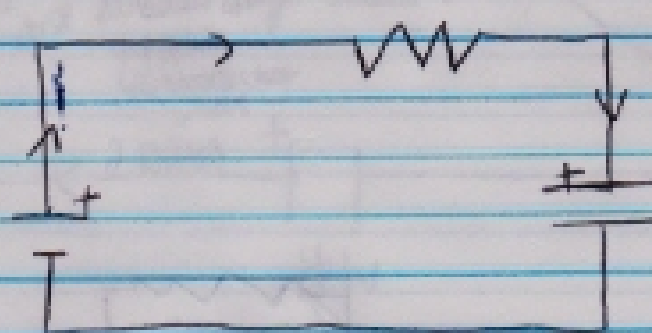


July 2, 2014

Today we weren't able to do much in class. The computer was acting up. The information from lab is also attached.

July 2, 2014

- currents running next to each other affect one another \rightarrow need to shield them



\rightarrow as more charge comes on, the current slows down because there are so many charges

① all voltage drop is across the resistor, then the voltage drop is only over the capacitor

time $e^{-t/RC}$ - value of capacitor $t = RC \rightarrow e^{-\frac{RC}{RC}} \rightarrow e^{-1} = 0.37$

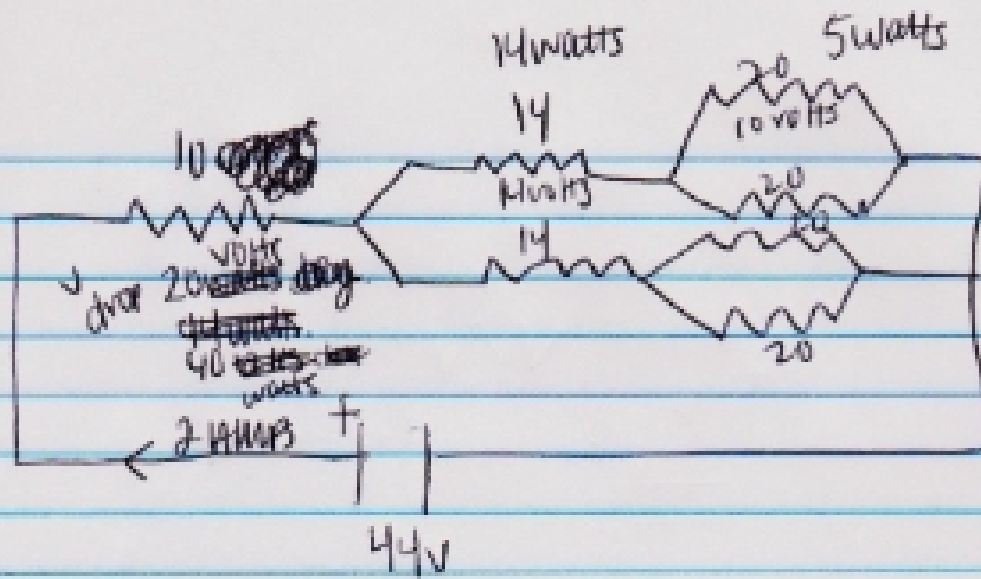
\downarrow resistor in ohms

as time goes on, time gets bigger $\rightarrow e^{-\frac{2RC}{RC}} = e^{-2} = 0.14$

$1 - e^{-t/RC}$
 \downarrow get smaller

Chapter 18

RC circuits - now we will have resistors and capacitors



$$V = RI$$

$$44 = 22I$$

$$I = 2 \text{ AMPS}$$

$$P = IV \quad 88 \text{ watts overall}$$