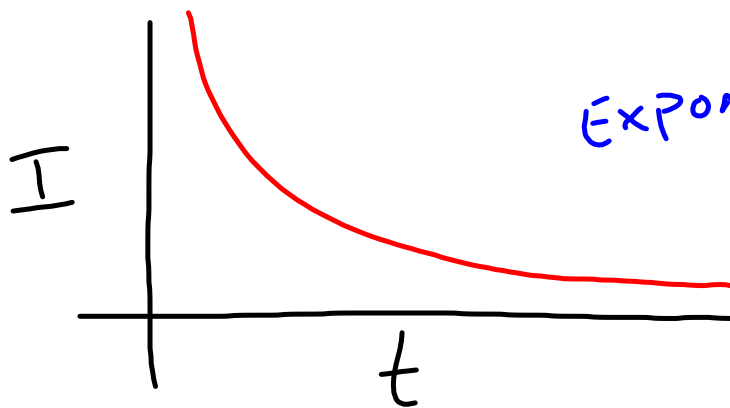


## LAB - RC CIRCUITS

- Determine the relationship between current and time for three different resistor values with one capacitor.
- Whiteboard:
  - Resistor and capacitor values
  - $I$  vs.  $t$  graph  $\rightarrow$  function of best fit



EXPONENTIAL!

\* How does the exponent relate to resistance and capacitance?

$$I(t) = A e^{-t/x}$$

→ what is  $x$ ?

(combination of  $R$  and  $C$ ...

$R+C, C-R, R-C, RC, \frac{R}{C}, \frac{C}{R}$