

# PHYS222\_prelab

## RC Time Constants

Name \_\_\_\_\_

Section \_\_\_\_\_

1) What is the RC time constant?

2) Given a 1.45 M ohm (mega ohm resistor) and a 50 microfarad capacitor, find the RC time constant. Be sure and use proper units. Show all work.

3) Determine the RC time and twice RC time using the the  $1/e$  and  $1/e^2$  points from the figure below. See lab write up on how to do. Show all work.

