QUESTIONS TO HAND IN – EXPERIMENT 8

NAMELAB DAY/TIME	
2.	A 1 $M\Omega$ resistor is placed in a series circuit with a 9 V battery, a switch, and a 0.01 μF capacitor. What is the time constant of this combination?
3.	How long after the switch is closed does it take the charge on the 0.01 μF capacitor to rise to 63% of its final value?
4.	What will the current be in the circuit after 1 second?
5.	When is the current in the circuit the largest?