**NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**ECE 205**

**HW 1**

1. One million electrons flow past a point in a wire in one millisecond. What is the current in this wire? Express your answer in engineering units (uA, nA, or fA).

2. The current flowing into a 100 ohm resistor is given by the graph below (x-axis is time). What is the total charge that has flown into the resistor between 0<t<2 seconds?



3. The charge exiting a current source is given by C. What is the current at t=205 ms?