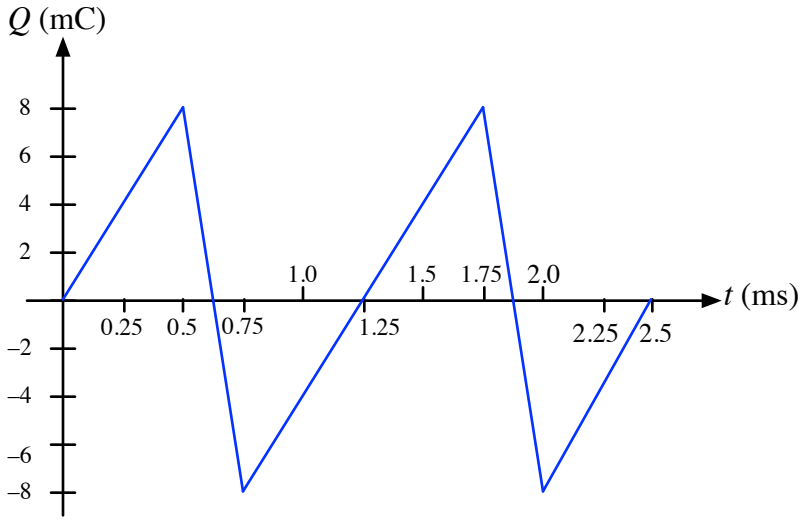
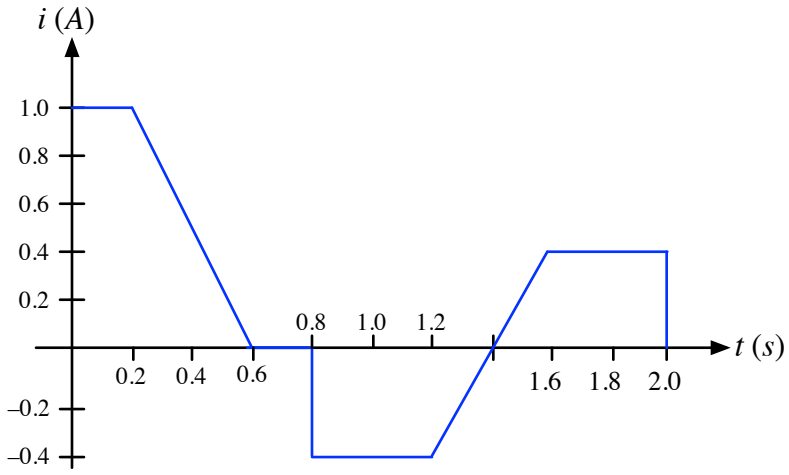
EE 201 — HW 1-3 Name_____

a) The charge stored on one plate of a capacitor is see-sawing up and down as indicted in the figure at right. Make a graph of the corresponding capacitor current as a function of time.



b) The current flowing past a point in a circuit is show at right. Find the net amount of charge that has moved past in the between t = 0 and each of the times given below. (Net means that charge flowing in the opposite direction subtracts from the total.)



Q between $t = 0$ and $t = 0.4$ s = _____

Q between $t = 0$ and $t = 1$s _____

Q between $t = 0$ and $t = 1.6$ s = _____

Q between $t = 0$ and $t = 2$ s = _____

Write your answers — and whatever work will fit — on this sheet. Staple any sheets with additional work behind.