## ELEC 2501 Midterm #1 Marking Scheme

Q1: 0.25 marks for getting the 2 parallel resistors correct (first part of solution) 0.25 marks for recognizing there are 4 resistors in parallel. 0.5 marks for correct answer

Q2. 0.25 marks for knowing current is the power/voltage 0.25 marks for knowing charge is current x time 0.5 marks for correct charge -0.25 marks for integrating over the wrong interval.

Q3. 0.5 marks for correct answer with wrong sign

Q4. 0.5 marks for correctly finding Ix 0.5 marks for finding Vx with wrong Ix carried through - 0.25 marks deducted for correct value with sign error (so 0.75/1)

Q5. 0.25 marks for finding current 0.25 marks for having the current in the correct direction 0.5 marks for correct Vba -0.25 marks deducted for correct value with sign error of Vba (so 0.75/1)

Q6. -0.25 marks deducted for correct value with sign error (so 0.75/1)

Q7. 0.25 marks for every correct element -0.25 marks deducted for every incorrect element (with a min of zero awarded) This ensures the students don't just simply list all the elements

Q8. 0.25 marks for recognizing a Wye-Delta 0.25 more partial at discretion since algebraic errors could be very likely, with a max of 0.5 marks awarded with a max of 0.5/1.