CSSE 304 list-recur follow-up Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section (circle one) 01(9:00) 02(9:55) 03(10:50)

You may use your notes and/or your computer for this problem. You will not have time to make up an example, but you should have time to copy an example that you have already done.

1. (7 points) Use list-recur to create a procedure that is different than the ones we did in class. For full credit, it should not be a “clone” of one of the in-class procedures.
2. (1 point) We used list-recur to write 5 different procedures. For one of those procedures, the efficiency cost of using list-recur is so great that we should not use list-recur. Which procedure is it? Circle the correct one.  
     
   list-sum list-product apply-to-all member?- length
3. (4 points) No credit if your answer to #2 is incorrect. Explain why the original version of the procedure you chose in #2 is much more efficient than the “made with list-recur” version. Your answer can be very brief. I can think of a four-word answer that is sufficient. Hopefully you can explain it in a couple of sentences.