Homework 1 – due 09/12/03

Math 340

REMARK: Please note that in problem #5, the $'$ superscript on g DOES NOT DENOTE the derivative of g! I was simply using g' to designate another function (a priori different from g). It would have been preferably if I had simply used another letter (say k) to denote this other function.

5. Show that if f has an inverse, then that inverse is unique. (Hint: suppose g and g' are each inverse to f. Show that $g = g'$ by considering the composition $g \circ f \circ g'$). This result justifies our referring to THE inverse of f.