# MATH 2 <br> PROBLEM OF THE WEEK 1 

Due Friday, January 10th, 2003 before the quiz.
Please show all your work!

Name:

Problem 1. Given a function $f(x)$ find the formula for the derivative of
(1) $f^{-1}(x)$ and
(2) $(f(x))^{-1}$
in terms of $f(x)$.
Problem 2. Suppose that you're given the graph of a function $f(x)$ :


Graph
(1) $f^{-1}(x)$
(2) $(f(x))^{-1}$

