Math 126A: Calculus II   Name:_____

Quiz 1   *Aug. 31, 1999*

1. In the plot below you will find the graph of the function $f(x) = x + x^3$ together with the graph of $y = x$ for $x \geq 0$.

a) On this plot, graph the inverse function $f^{-1}(x)$.

b) Calculate $(f^{-1})'(2)$.

2. Evaluate $\int_1^e \dfrac{1}{x\sqrt{\ln x}}\, dx$. (Be sure to show all your work.)