

Math 126: Calculus II

Name: _____

Quiz 1 Aug. 31, 1999

Section: _____

1. In the plot below, you will find the graph of a function $y = f(x)$ together with the graph of $y = x$.

a. On this plot, graph the inverse of f .

b. Estimate $\frac{df}{dx}(0.25)$ and $\frac{d(f^{-1})}{dx}(f(0.25))$.

$$\frac{df}{dx}(0.25) = \underline{\hspace{2cm}}$$

$$\frac{d(f^{-1})}{dx}(f(0.25)) = \underline{\hspace{2cm}}$$

2. Evaluate $\int_1^e \frac{1}{x\sqrt{\ln x}} dx$, carefully **showing your work** and **all** important steps.