Math 126C: Calculus II   Name:_____

Quiz 2   *September 5, 2000*

1. Calculate the following, *showing all your work and all important steps.*

a) $\dfrac{d}{dx}(x^{1/x})$

b) $\displaystyle\int_0^1 \dfrac{e^x}{1+e^x}\,dx$

2. Let $f(t) = 3e^{-kt}$. Find k such that $f(2) = \dfrac{1}{4}f(1)$.