Math 126: Calculus II
Quiz 3 September 14, 1999

Name:
Section:

1. Calculate the following, carefully showing your work and all important steps.
a) $\lim _{t \rightarrow 0} \frac{t \sin t}{1-\cos t}$.
b) $\lim _{x \rightarrow 0} x^{x}$.
2. Consider the functions $f(x)=x^{2} e^{x}$ and $g(x)=e^{2 x}$. Which one grows faster as $x \longrightarrow \infty$ ? Carefully show your work and all important steps.
