Math 126: Calculus II
Quiz 7 October 24, 2000

Name:
Section:

1. Find the limit of the sequence

$$
a_{n}=\left(\frac{x^{n}}{2 n+1}\right)^{1 / n}+\ln \left(1+\frac{1}{n}\right)^{n}
$$

carefully showing your work and all important steps.
2. Calculate the following, carefully showing your work and all important steps.

$$
\sum_{n=1}^{\infty} e^{-2 n}
$$

