## Math 126: Calculus II

Quiz 7 October 24, 2000

Name:
Section:

Show all your work and all important steps.

1. Find the limit of the sequence $a_{n}=\frac{n \pi+\cos (n \pi)}{n \pi}$.
2. Consider the series $s=\sum_{n=1}^{\infty} \frac{5+(-1)^{n}}{10^{n}}$.
a) Determine the $8^{\text {th }}$ partial sum, $s_{8}$, as a decimal number.
b) Use geometric series to compute the sum of the infinite series $s$.
