

**Math 126: Calculus II**  
**Quiz 8** October 31, 2000

Name: \_\_\_\_\_  
Section: \_\_\_\_\_

Determine whether the following series converge or diverge. *Justify your answer, carefully showing all your work.*

1.  $\sum_{n=1}^{\infty} ne^{-n}$

2.  $\sum_{n=1}^{\infty} \frac{\sqrt{n}}{n^3 + 5}$