Math 126: Calculus II   Name:_____

Quiz 7   *October 26, 1999*   Section:_____

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

$$\sum_{n=1}^{\infty} (-1)^n e^{-n}.$$

2. State whether each of the following series converges or diverges. You **must** give reasons for your answers.

a. $\displaystyle\sum_{n=2}^{\infty} \frac{1}{n(\ln(n))^2}.$

b. $\displaystyle\sum_{n=5}^{\infty} \frac{n-1}{n+3}.$