

Math 231 Section A1
Quiz 7
July 9, 2007

Name: _____

Determine if the following series converge or diverge. If they converge, determine whether the convergence is absolute or conditional.

1) $\sum_{k=1}^{\infty} (-1)^k \frac{10^k}{k!}$

$$2) \sum_{k=1}^{\infty} \left(\frac{\pi k}{k+e} \right)^k$$

Extra Credit: Find all values of p such that $\sum_{k=1}^{\infty} \frac{p^k}{k^p}$ converges.