

Math 166: Honors Calculus II
Quiz 10 *Apr. 25, 1996*

Name: _____

1. State the following.

a) ROOT TEST

b) RATIO TEST

c) LEIBNIZ'S RULE

d) Definition of conditional convergence.

2. a) Determine whether the series $\sum_{n=1}^{\infty} \frac{(-1)^n n!}{n^n}$ is absolutely convergent, conditionally convergent, or divergent.

b) Describe the set of real numbers x for which the series $\sum_{n=1}^{\infty} \frac{(-1)^n x^{2n}}{n2^n}$ converges.