

**Quiz 9**  
Math 231 Section DD5  
November 2, 2006

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

1) Find the radius of convergence of the power series

$$\sum_{n=1}^{\infty} n^2 x^{2n}.$$

Determine whether the series converges or diverges at the endpoints of its interval of convergence.

2) Find the radius of convergence of the power series

$$\sum_{n=2}^{\infty} \frac{x^{3n}}{[\ln(n)]^3}.$$

Determine whether the series converges or diverges at the endpoints of its interval of convergence.