

Quiz 9
Math 231 Section DD4
November 2, 2006

Name: _____

1) Find the radius of convergence of the power series

$$\sum_{n=1}^{\infty} n^3 x^{3n}.$$

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

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

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