

Quiz 8
Math 231 Section DD4
October 26, 2006

Name: _____

1) Find the radius of convergence of the power series

$$\sum_{n=1}^{\infty} \frac{(4x)^n}{n^2}.$$

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

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

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