

Quiz 6
Math 231 Section DD5
October 12, 2006

Name: _____

For the following problems you must justify your answer by clearly showing that an appropriate test is applicable.

1) Does the infinite series

$$\frac{1}{11} + \frac{1}{121} + \frac{1}{1331} + \frac{1}{14641} + \cdots$$

converge? If so, to what?

2) Does the infinite series

$$\sum_{n=1}^{\infty} \frac{3n^8 - 3n^7 - 9n^2}{15n^8 + 22n^5 + 9}$$

converge?

3) Does the infinite series

$$\sum_{n=1}^{\infty} 6ne^{-7n}$$

converge?