

Quiz 6
Math 231 Section DD4
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

$$\frac{1}{7} + \frac{1}{49} + \frac{1}{343} + \frac{1}{2401} + \cdots$$

converge? If so, to what?

2) Does the infinite series

$$\sum_{n=1}^{\infty} \frac{3n^4 - 8n^2 - 9}{11n^4 + 7n + 19}$$

converge?

3) Does the infinite series

$$\sum_{n=1}^{\infty} 5ne^{-2n}$$

converge?