

Quiz 7

Math 231 Section DD4

October 19, 2006

Name: _____

Determine whether the following series converge or diverge. You must justify your answer by clearly showing that an appropriate test is applicable.

1) Does the series

$$\sum_{n=1}^{\infty} \frac{(8n - 5)}{9(n + 8)}$$

converge or diverge?

2) Does the series

$$\sum_{n=1}^{\infty} 8ne^{-7n}$$

converge or diverge?

3) Does the series

$$\sum_{n=1}^{\infty} \frac{(9n + 13)8^n}{n!}$$

converge or diverge?