

**Quiz 9**

Name: \_\_\_\_\_

**Math 4548**

April 4, 2014

1. (3 points). Define what it means for the series  $\sum_{n=0}^{\infty} a_n$  to *converge*.

2. (1 point). To *converge absolutely*.

3. (1 point). Sum the following series (or explain why it doesn't converge).

$$\sum_{n=0}^{\infty} \left(\frac{-1}{5}\right)^n$$