MATH 142 (Section H01)
Prof. Meade

Quiz 7
October 27, 2014

University of South Carolina
Fall 2014

Name: _____Key_____
Section: H01

1. (5 points) What two sequences are involved in analyzing the series $\sum_{k=1}^{\infty} a_k$?

1. The sequence of terms $\{a_k\}_{k=1}^{\infty}$

2. The sequence of partial sums $\{S_n\}_{n=1}^{\infty}$ where $S_n = \sum_{k=1}^{n} a_k$.

2. (5 points) Using words, and terminology and ideas about sequences, what has to happen in order for us to be able to say the series $\sum_{k=1}^{\infty} a_k$ converges?

The series $\sum_{k=1}^{\infty} a_k$ converges when the corresponding sequence of partial sums converges.