

2 & 6

Generalization 2

Given a sequence of reals
 a_1, a_2, \dots , how (and
 when) can we assign a
 unique meaning to

$$\sum_{j=1}^{\infty} a_j ?$$

Soln Let $S_n = \sum_{j=1}^n a_j$

If the sequence of partial
 sums $S_n \rightarrow L$ we
 say $\sum_{j=1}^{\infty} a_j = L$