Hence The sum of this infinite collection of numbers {1, 2, 4, ...} must be Two. Ntow can we generalize This? Generalization! Generalization! Heris How large is 4141 1+r+r2+... Soln: Let S = 1+r+--+r For 17,0, $S \subseteq S_2 \le \cdots$ and we expect him $S = \sum_{n\to\infty} r^{j}$