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10 A Mathematical Introduction to Logic. THEOREM 0D For an infinite set A , the set of all infinite sequences of elements of A has cardinality equal to $\text{card } A$. We already proved this for the case of a countable A (see Theorem 0B).

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A similar induction principle holds for the set of integers greater than some fixed integer j . An example is: to prove by mathematical induction that the sum of the first n odd integers $1 + 3 + 5 + \dots + (2n-1)$ is n^2 , first show that $1 = 1^2$ (that is, $P(1)$), and then, that if $1 + 3 + 5 + \dots + (2j-1) = j^2$, then $1 + 3 + 5 + \dots + (2(j+1)-1) = (j+1)^2$.

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Introduction To Mathematical Analysis

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Introduction to Mathematical Philosophy by Bertrand Russell Originally published by George Allen & Unwin, Ltd., London. May 1919. Online Corrected Edition version 1:0 (February 5, 2010), based on the "second edition" (second printing) of April 1920, incorporating additional corrections, marked in green.

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