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A PROBLEM IN NONSTANDARD ANALYSIS

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Nonstandard Analysis revealed some interest aspects in classical concepts of usual standard Mathematics. An elementary example is compactness of a standard topological space with nonstandard proof of the Peano theorem. It is desirable to explain from nonstandard point of view what the principle of uniform boundness or the principle of openness of a map means, in particular, for hyperfinite space. Give nonstandard proofs of these theorems.

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