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ON THE ASYMPTOTIC ANALYSIS OF THE FUNCTIONS OF DISCRETE VARIABLE

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Abstract. In this paper we give a sketch of an Asymptotic Analysis of the (real) functions of natural variable, i.e. of the real sequences. In the first part we mention a set of inequalities which conducts to some developments of the first order and in the second part we mention some (infinite) asymptotic developments. All these facts conducts to a general theory of the asymptotic developments.

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Keywords: Sequence, series, limit of a sequence, sum of a series, order of convergence, the symbols O and o of Landau, asymptotic equivalence, asymptotic development.