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**Limit of a sequence defined by recursion.**

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Summary: Limit of a sequence is one of the fundamental notions in university mathematics. Computing limits of various types is included in standard tasks. This paper is devoted to selected non-standard and/or problem limits. The sequences in question are defined by recursion, thus traditional algorithms are of no use here and must be superseded by other methods.

*Classification:* I35

*Keywords:* sequence defined by recursion; limit of sequence; application of limit of sequence

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