

Fitting the Extreme Value Theorem into a Very Compact Article

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Abstract

This paper is the second of a pair of articles that describe the topological characteristics of the set of real numbers, \mathbb{R} , and real-valued functions on \mathbb{R} , which are the underlying tools for justifying why continuity implies the existence of intermediate and extreme values. As in the first, this article introduces some topological concepts and then follows with a concise proof of a well-known calculus theorem. The Extreme Value Theorem is proven using topology.



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