Fixed point (mathematics) - Wikipedia
A topological space is said to have the fixed point property (FPP) if for any continuous function: → there exists such that () = . The FPP is a topological invariant, i.e. is preserved by any homeomorphism. The FPP is also preserved by any retraction. According to the Brouwer fixed-point theorem, every compact and convex subset of a Euclidean space has the FPP.

Brouwer fixed-point theorem - Wikipedia
Brouwer's fixed-point theorem is a fixed-point theorem in topology, named after L. E. J. (Bertus) Brouwer. It states that for any continuous function mapping a compact convex set to itself, there is a point such that = . The simplest forms of Brouwer's theorem are for continuous functions from a closed interval in the real numbers to itself or from a closed disk to itself.

Fixed Point Theory and Algorithms for Sciences and

The theory itself is a beautiful mixture of analysis (pure and applied), topology and geometry. Over the last 60 years or so, the theory of fixed points has been revealed as a very powerful and important tool in the study of nonlinear phenomena. In particular, fixed point techniques have been applied in such diverse fields as biology, chemistry.

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Brouwer Fixed-Point Theorem
points, the second has one fixed point at 2, and the last has none. Fixed points came into mathematical focus in the late 19th century. The mathematician Henri Poincaré began using them in topological analysis of nonlinear problems, moving from point to the front of topology. Luitzen Egbertus Jan Brouwer, of the University of Amsterdam


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