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homotopy wikipedia Dec 28 2022 then a functor on the category of topological spaces is homotopy invariant if it can be expressed as a functor on the homotopy category for example homology groups are a functorial homotopy invariant this means that if f and g from x to y are homotopic then the group homomorphisms induced by f and g on the level of homology groups are the same h n f h n g h n x h n y for all n

homotopy mathematics britannica Sep 25 2022 homotopy in mathematics a way of classifying geometric regions by studying the different types of paths that can be drawn in the region two paths with common endpoints are called homotopic if one can be continuously deformed into the other leaving the end points fixed and remaining within its defined region

homotopy encyclopedia of mathematics Aug 24 2022 dec 15 2019 in this sense the problem of homotopy is a special case of the problem of extension in a wide class of individual cases however viz for the so called cofibrations cf

cofibration the possibility of extending to x a continuous mapping a rightarrow y given on a subspace a subset x depends only on its homotopy class this close connection between the problem of homotopy and the problem of extension is the reason why they are

homotopy theory wikipedia Oct 26 2022 in mathematics homotopy theory is a systematic study of situations in which maps can come with homotopies between them it originated as a topic in algebraic topology but nowadays is studied as an independent discipline besides algebraic topology the theory has also been used in other areas of mathematics such as algebraic geometry and category theory

homotopy northeastern university Apr 20 2022 proposition 2 5 homotopy equivalence is an equivalence relation on topological spaces proof we need to verify that is re exive symmetric and transitive re exivity x x the identity map id x x x is a homeomorphism and thus a homotopy equivalence symmetry x y y x suppose f x y is a homotopy equivalence with homotopy inverse g

homotopy simple english wikipedia the free encyclopedia Mar 19 2022 a homotopy is a deformation change of form of one thing into another without cutting it for example if we imagine a stretchy object then all the shapes we can stretch or twist it into are homotopy equivalent one famous example is the homotopy equivalence of a coffee cup and a donut to a topologist these two shapes are the same

homotopy wiktionary May 21 2022 jan 16 2023 homotopy countable and uncountable plural homotopies topology a continuous deformation of one continuous function or map to another the concept of homotopy represents a formalisation of the intuitive idea of a smooth deformation of one curve

into another

lecture notes on homotopy theory and applications Jun 22 2022 a homotopy between f and g then f yt is a homotopy between f f and f g so f is well de fi ned moreover from the de fi nition of the group operation on pn it is clear that we have f f g f f f g so f f g f f f g hence f is a group homomorphism the following is a consequence of the de fi nition of the above induced homomorphisms

homotopic from wolfram mathworld Jul 23 2022 jan 24 2023 homotopic two mathematical objects are said to be homotopic if one can be continuously deformed into the other for example the real line is homotopic to a single point as is any tree however the circle is not contractible but is homotopic to a solid torus the basic version of homotopy is between maps

homotopy from wolfram mathworld Nov 27 2022 jan 24 2023 a homotopy between two functions and from a space to a space is a continuous map from such that and where denotes set pairing another way of saying this is that a homotopy is a path in the mapping space from the first function to the second two mathematical objects are said to be homotopic if one can be continuously deformed into the other the concept of homotopy was first formulated by poincar é around 1900 collins 2004