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web jan 24 2023 topology is the mathematical study of the properties that are preserved through deformations twistings and stretchings of objects tearing however is not allowed a circle is topologically equivalent to an ellipse into which it can be deformed by stretching and a sphere is equivalent to an ellipsoid similarly the set of all possible positions of the web topology is the

study of shapes and spaces what happens if one allows geometric objects to be stretched or squeezed but not broken in fact there is quite a bit of structure in what remains which is the principal subject of study in topology the modern field of topology draws from a diverse collection of core areas of mathematics web topology defines the structure of the network of how all the components are interconnected to each other there are two types of topology physical and logical topology types of network topology physical topology is the geometric representation of web dec 23 2022 topology branch of mathematics sometimes referred to as rubber sheet geometry in which two objects are considered equivalent if they can be continuously deformed into one another through such motions in space as bending twisting stretching and shrinking while disallowing tearing apart or gluing together parts web in mathematics topology from the greek words *topos* place location and *logos* study concerns with the properties of a geometric object that are preserved under continuous deformations such as stretching twisting crumpling and bending that is without closing holes opening holes tearing gluing or passing through itself web topology is a relatively new branch of mathematics most of the research in topology has been done since 1900 the following are some of the subfields of topology general topology or point set topology general topology normally considers local properties of spaces and is closely related to analysis it generalizes the concept of continuity web the word topology is derived from the greek language *topos* place location and *logos* study hence it is a study of objects precisely geometric objects which remain constant technically we call them invariant if the object undergoes continuous deformation which is stretching it twisting bending it web network

topology is used to describe the physical and logical structure of a network it maps the way different nodes on a network including switches and routers are placed and interconnected as well as how data flows diagramming the locations of endpoints and service requirements helps determine the best placement for each node to optimize traffic web aug 15 2019 there are two approaches to network topology physical and logical physical network topology as the name suggests refers to the physical connections and interconnections between nodes and the network the wires cables and so forth logical network topology is a little more abstract and strategic referring to the conceptual web 1 topographic study of a particular place specifically the history of a region as indicated by its topography 2 a 1 a branch of mathematics concerned with those properties of geometric configurations such as point sets which are unaltered by elastic deformations such as a stretching or a twisting that are homeomorphisms 2 the set of all open

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