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### graph theory | Problems & Applications | Britannica

Graph theory is also used in connectomics; nervous systems can be seen as a graph, where the nodes are neurons and the edges are the connections between them. Mathematics [ edit ] In mathematics, graphs are useful in geometry and certain parts of topology such as knot theory .

### Graph theory - Wikipedia

Bibliography 55. 7. 71 Graph theoryIn mathematics, graph theory is the study of graphs, which are mathematical structures, used to model pair wise

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relations between objects. A graph in this context is made up of vertices, nodes, or points which are connected by edges, arcs, or lines.

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In physics and chemistry, graph theory is used to study molecules. The 3D structure of complicated simulated atomic structures can be studied quantitatively by gathering statistics on graph-theoretic properties related to the topology of the atoms. Statistical physics also uses graphs.

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