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Graph theory, branch of mathematics concerned with networks of points connected by lines. The subject of graph theory had its beginnings in recreational math problems (see number game), but it has grown into a significant area of mathematical research, with applications in chemistry, operations research, social sciences, and computer science.

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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

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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How to think in graphs: An illustrative introduction to ...

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