

discrete mathematical structures with pdf

Discrete mathematics is the study of mathematical structures that are fundamentally discrete rather than continuous. In contrast to real numbers that have the property of varying "smoothly", the objects studied in discrete mathematics – such as integers, graphs, and statements in logic – do not vary smoothly in this way, but have distinct, separated values.

Discrete mathematics - Wikipedia

Definitions. Definitions in graph theory vary. The following are some of the more basic ways of defining graphs and related mathematical structures.. Graph. In one very common sense of the term, a graph is an ordered pair $G = (V, E)$ comprising a set V of vertices, nodes or points together with a set E of edges, arcs or lines, which are 2-element subsets of V (i.e., an edge is associated with ...

Graph (discrete mathematics) - Wikipedia

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Discrete mathematics is the study of mathematical structures that are discrete rather than continuous. In contrast to real numbers that vary "smoothly", discrete mathematics studies objects such as integers, graphs, and statements in logic. These objects do not vary smoothly, but have distinct, separated values. Discrete mathematics therefore excludes topics in "continuous mathematics" such as ...

Discrete mathematics - Simple English Wikipedia, the free

This note explains the following topics: positional and modular number systems, relations and their graphs, discrete functions, set theory, propositional and predicate logic, sequences, summations, mathematical induction and proofs by contradiction.

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