Introductory Graph Theory Gary Chartrand

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Hamiltonian Cycles, Graphs, and Paths | Hamilton Cycles, Graph Theory What are Hamiltonian cycles, graphs, and paths? Also sometimes called Hamilton cycles, Hamilton graphs, and Hamilton paths, we ...

Proof: Vertex Cut iff Graph is Not Complete | Graph Theory A connected graph has a vertex cut if and only if it is not complete, meaning it has at least one pair of non-adjacent ...

Size of a Complete Graph (Using First Theorem of Graph Theory) | Graph Theory How many edges are in a complete graph? This is also called the size of a complete graph. We'll be answering this question in ...

Proof: Degree Sum Condition for Connected Graphs | Connected Graphs, Nonadjacent Vertices If every pair of nonadjacent vertices in a graph has a degree sum greater than or equal to one less than the number of ...

Vertex Connectivity of a Graph | Connectivity, K-connected Graphs, Graph Theory What is vertex connectivity in graph theory? We'll be going over the definition of connectivity and some examples and related ...

[Discrete Mathematics] Introduction to Graph Theory We introduce a bunch of terms in **graph theory** like edge, vertex, trail, walk, and path. Support me on Patreon: http://bit.ly/2EUdAl3 ...

Lec 6 | MIT 6.042J Mathematics for Computer Science, Fall 2010 Lecture 6: **Graph Theory** and Coloring Instructor: Tom Leighton View the complete course: http://ocw.mit.edu/6-042JF10 License: ...

5.1 Graph Traversals - BFS & DFS -Breadth First Search and Depth First Search Breadth First Search Depth First Search PATREON : https://www.patreon.com/bePatron?u=20475192 UDEMY 1. Data Structures ...

Graph theory : Max. Number of edges in a graph with n vertices and k components Class 6: Max. Number of edges in a **graph** with n vertices and k components.

Graph Theory: 06 Sum of Degrees is ALWAYS Twice the Number of Edges This is usually the first Theorem that you will learn in **Graph Theory**. We explain the idea with an example and then give a proof ...

What is a Hamilton path? A description and examples of a Hamilton path.

Graph Theory: 27. Hamiltonian Graphs and Problem Set I define a Hamilton path and a Hamilton cycle in a **graph** and discuss some of their basic properties. Then I pose three questions ...

Graph Theory: 53. Cut-Vertices Here we introduce the term cut-vertex and show a few examples where we find the cut-vertices of graphs. We then go through a ...

Graph Theory - An Introduction! Thanks to all of you who support me on Patreon. You da real mvps! $1 per month helps!! :) https://www.patreon.com/patrickjmt !

2.9.4 k-Connectivity: Video MIT 6.042J Mathematics for Computer Science, Spring 2015 View the complete course: http://ocw.mit.edu/6-042JS15 Instructor: ...

Degree of a vertex in Graph | Graph Theory #6 Degree of a vertex in **graph** is the number of edges incident on that vertex (degree 2 added for loop edge). There is indegree and ...

Graph Theory Blink 5.2 (Walks, trails, paths, and cycles in graphs) **GraphTheory** #GraphAnalysis #SNAPLibrary #Dijkstra #ShortestPath #Diffusion #Navigation #Routing A roadmap to navigate ...

Graph Theory Blink 3.1 (Connected components in a graph and minimum spanning tree) A roadmap to navigate **Graph Theory** Blinks. This course comes at the intersection of mathematics, learning, and algorithms.

Graph Theory Blink 5.5 (Graph efficiency measures) **GraphTheory** #GraphAnalysis #SNAPLibrary #Dijkstra #ShortestPath #Diffusion #Navigation #Routing A roadmap to navigate ...

Edge Subtraction and Bridges in Graphs | Graph Theory, Edge Deletion What is edge subtraction in **graph theory**? How do we delete an edge from a graph? And what is a bridge? That's what we'll be ...

Graph Theory 5.3 (Similarity-to-distance remapping in weighted graphs) **GraphTheory** #GraphAnalysis #SNAPLibrary #Dijkstra #ShortestPath #Diffusion #Navigation #Routing A roadmap to navigate ...

Proof: Dirac's Theorem for Hamiltonian Graphs | Hamiltonian Cycles, Graph Theory Dirac's theorem for Hamiltonian graphs tells us that if a **graph** of order n greater than or equal to 3 has a minimum degree greater ...

What are Graph Decompositions? | Graph Decomposition, Graph Theory What is a graph decomposition? Graph decompositions are studied quite extensively by many in graph theory, and we'll go over ...

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