Graph Theory
Solutions to Midterm 2

You must show all your work. The number of points earned on each problem will depend upon how well you have justified your solution.
Choose nine of the following problems and complete them. Write the number of the chosen problems in the table above and return the cover sheet with your test.

1. Prove that $r(3,n) \le \frac{n(n+1)}{2}$ for all $n \in Z^+$.

We use induction on n.
Assume the statement holds for all integer values less than n.
Using the table on page 84, we see that the statement holds for n = 1,...,9.
Using Theorem 4.3.2, we have

$$n + r(3,n-1) \le n + \frac{(n-1)(n-2)}{2} = \frac{2n + n^2 - 3n + 2}{2} =$$

$$\frac{n^2 - n + 2}{2} = \frac{(n-2)(n+1)}{2}$$

$$r(3,n) \le r(2,n) + r(3,n-1) = n + r(3,n-1) \le n + \frac{(n-1)n}{2} =$$

$$\frac{n(n+1)}{2}$$

by the inductive hypothesis.

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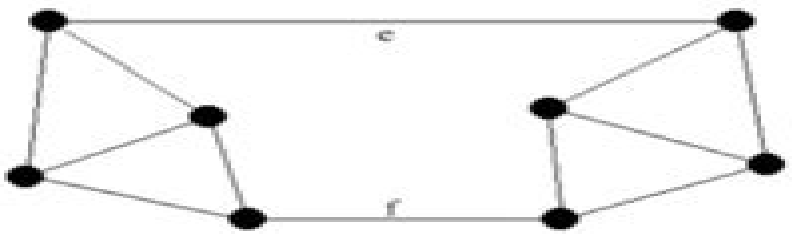
2. Find the number of spanning trees in the graph below.



Graph Theory Problems And Solutions

W.D. Wallis

Graph Theory Problems And Solutions:

Introduction To Graph Theory: With Solutions To Selected Problems Khee-meng Koh,Fengming Dong,Eng Guan Tay,2023-12-05 Graph theory is an area in discrete mathematics which studies configurations called graphs involving a set of vertices interconnected by edges This book is intended as a general introduction to graph theory The book builds on the verity that graph theory even at high school level is a subject that lends itself well to the development of mathematical reasoning and proof This is an updated edition of two books already published with World Scientific i e Introduction to Graph Theory H3 Mathematics Introduction to Graph Theory Solutions Manual The new edition includes solutions and hints to selected problems This combination allows the book to be used as a textbook for undergraduate students Professors can select unanswered problems for tutorials while students have solutions for reference Introduction To Graph Theory: Solutions Manual Khee-meng Koh,Fengming Dong,Eng Guan Tay,2007-10-12 This is a companion to the book Introduction to Graph Theory World Scientific 2006 The student who has worked on the problems will find the solutions presented useful as a check and also as a model for rigorous mathematical writing For ease of reference each chapter recaps some of the important concepts and or formulae from the earlier book **Graphs Theory and Applications** Jean-Claude Fournier,2013-05-06 This book provides a comprehensive and pedagogical introduction to graph theory and its applications It contains all the standard basic material and develops significant topics and applications such as colorings and the timetabling problem matchings and the optimal assignment problem and Hamiltonian cycles and the travelling salesman problem to name but a few Exercises at various levels are given at the end of each chapter and a final chapter presents a few general problems with hints for solutions thus providing the reader with the opportunity to test and refine their knowledge on the subject An appendix outlines the basis of computational complexity theory in particular the definition of NP completeness which is essential for algorithmic applications **Problems in Combinatorics and Graph Theory** Ioan Tomescu,1985-04-30 Covers the most important combinatorial structures and techniques This is a book of problems and solutions which range in difficulty and scope from the elementary student oriented to open questions at the research level Each problem is accompanied by a complete and detailed solution together with appropriate references to the mathematical literature helping the reader not only to learn but to apply the relevant discrete methods The text is unique in its range and variety some problems include straightforward manipulations while others are more complicated and require insights and a solid foundation of combinatorics and or graph theory Includes a dictionary of terms that makes many of the challenging problems accessible to those whose mathematical education is limited to highschool algebra *Graph Theory and Its Applications to Problems of Society* Fred S. Roberts,1978-01-01 Explores modern topics in graph theory and its applications to problems in transportation genetics pollution perturbed ecosystems urban services and social inequalities The author presents both traditional and relatively atypical graph theoretical topics to best illustrate applications *A Beginner's Guide*

to Graph Theory W.D. Wallis,2010-05-05 Graph theory continues to be one of the fastest growing areas of modern mathematics because of its wide applicability in such diverse disciplines as computer science engineering chemistry management science social science and resource planning Graphs arise as mathematical models in these fields and the theory of graphs provides a spectrum of methods of proof This concisely written textbook is intended for an introductory course in graph theory for undergraduate mathematics majors or advanced undergraduate and graduate students from the many fields that benefit from graph theoretic applications This second edition includes new chapters on labeling and communications networks and small worlds as well as expanded beginner s material in the early chapters including more examples exercises hints and solutions to key problems Many additional changes improvements and corrections resulting from classroom use and feedback have been added throughout With a distinctly applied flavor this gentle introduction to graph theory consists of carefully chosen topics to develop graph theoretic reasoning for a mixed audience Familiarity with the basic concepts of set theory along with some background in matrices and algebra and a little mathematical maturity are the only prerequisites **The William Lowell Putnam Mathematical Competition 2001–2016: Problems, Solutions, and Commentary** Kiran S. Kedlaya,Daniel M. Kane,Jonathan M. Kane,Evan M. O'Dorney,2020-11-05 The William Lowell Putnam Mathematics Competition is the most prestigious undergraduate mathematics problem solving contest in North America with thousands of students taking part every year This volume presents the contest problems for the years 2001 2016 The heart of the book is the solutions these include multiple approaches drawn from many sources plus insights into navigating from the problem statement to a solution There is also a section of hints to encourage readers to engage deeply with the problems before consulting the solutions The authors have a distinguished history of engagement with and preparation of students for the Putnam and other mathematical competitions Collectively they have been named Putnam Fellow top five finisher ten times Kiran Kedlaya also maintains the online Putnam Archive **Proof Techniques in Graph Theory** Frank Harary,1969 **Introduction to Graph Theory** Khee Meng Koh,F. M. Dong,Dong Fengming,Tay Eng Guan,2007 This is a companion to the book Introduction to Graph Theory World Scientific 2006 The student who has worked on the problems will find the solutions presented useful as a check and also as a model for rigorous mathematical writing For ease of reference each chapter recaps some of the important concepts and or formulae from the earlier book **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards,1960 *FOCS 2004* ,2004 Annotation The proceedings covers computational complexity cryptography parallel and distributed computing machine learning logic coding theory theoretical databases information technology networks quantum computing and much more Journal of Research United States. National Bureau of Standards,1960 *Super Edge-Antimagic Graphs* Martin Baca,Mirka Miller,2008 Graph theory and graph labeling in particular are fast growing research areas in mathematics New results are constantly being discovered and published at a rapidly increasing rate due to the enormous number of open

problems and conjectures in the field This book deals mainly with the super edge antimagic branch of graph labeling It is written for specialists but could be read also by postgraduate or undergraduate students with high school knowledge of mathematics and a vibrant interest in problem solving The Fascinating World of Graph Theory Arthur Benjamin,Gary Chartrand,Ping Zhang,2015-01-18 The history formulas and most famous puzzles of graph theory Graph theory goes back several centuries and revolves around the study of graphs mathematical structures showing relations between objects With applications in biology computer science transportation science and other areas graph theory encompasses some of the most beautiful formulas in mathematics and some of its most famous problems The Fascinating World of Graph Theory explores the questions and puzzles that have been studied and often solved through graph theory This book looks at graph theory s development and the vibrant individuals responsible for the field s growth Introducing fundamental concepts the authors explore a diverse plethora of classic problems such as the Lights Out Puzzle and each chapter contains math exercises for readers to savor An eye opening journey into the world of graphs The Fascinating World of Graph Theory offers exciting problem solving possibilities for mathematics and beyond *Automorphic Functions* Lester R. Ford,1929 Mathematics Magazine ,1984 *Graph Theory* Singh G. Suresh,2010-08 Graphical representations have given a new dimension to the problem solving exercise in diverse subjects like mathematics bio sciences chemical sciences computer science and information technology social sciences and linguistics This book is devoted to the models of graph theory and the solutions provided by these models to the problems encountered in these diverse fields of study The text offers a comprehensive and coherent introduction to the fundamentals of graph theory besides giving an application based approach to the subject Divided into 13 chapters the book begins with explicating the basics of graph theory moving onto the techniques involved while drawing the graphs The subsequent chapters dwell onto the problems solved by the Ramsey table and Perfect graphs The algebraic graphs and their concepts are also explained with great precision The concluding chapters discuss research oriented methodologies carried out in the field of graph theory The research works include the work done by the author himself such as on Union Graphs and Triangular Graceful Graphs and their ramifications Primarily intended as a textbook for the undergraduate and postgraduate students of mathematics and computer science this book will be equally useful for the undergraduate students of engineering Apart from that the book can be used as a reference by the researchers and mathematicians Key Features Incorporates numerous graphical representations in the form of well labelled diagrams Presents a balanced approach with the help of worked out examples algorithms definitions and remarks Comprises chapter end exercises to judge students comprehension of the subject **Western Aerospace** ,1959 **The Papers of the ACM SIGCSE Third Technical Symposium on Computer Science Education** Gerald L. Engel,Robert M. Aiken,1973 U.S. Government Research & Development Reports ,1970

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