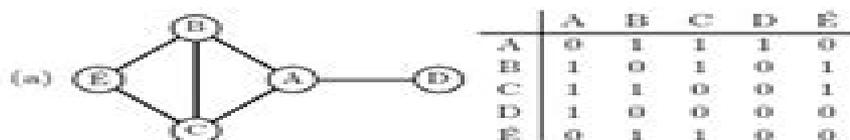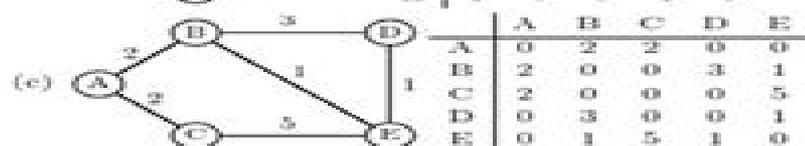# Exercises – Graph Theory
SOLUTIONS

Question 1

Model the following situations as (possibly weighted, possibly directed) graphs. Draw each graph, and give the corresponding adjacency matrices.

(a) Ada and Bertrand are friends. Ada is also friends with Cecilia and David. Bertrand, Cecilia and Évariste are all friends of each other.

(b) Wikipedia has five particularly interesting articles: Animal, Burrow, Chile, Desert, and Elephant. Some of them even link to each other!

(c) It is well-known that in the Netherlands, there is a 2-lane highway from Amsterdam to Breda, another 2-lane highway from Amsterdam to Cappele aan den IJssel, a 3-lane highway from Breda to Dordrecht, a 1-lane road from Breda to Ede and another one from Dordrecht to Ede, and a 5-lane superhighway from Cappele aan den IJssel to Ede.

Solution

(a)

	A	B	C	D	É
A	0	1	1	1	0
B	1	0	1	0	1
C	1	1	0	0	1
D	1	0	0	0	0
É	0	1	1	0	0

(b) Checking Wikipedia, we find that the Animal article links to none of the others, the Burrow article links to Animal and Chile, the Chile article links to Desert, the Desert article links to Chile, and the Elephant article links to Animal and Desert. Strangely, no relation between Burrow and Elephant seems to be present. We encode this information with a directed graph.

	A	B	C	D	E
A	0	0	0	0	0
B	1	0	1	0	0
C	0	0	0	1	0
D	0	0	1	0	0
E	1	0	0	1	0

(c)

	A	B	C	D	E
A	0	2	2	0	0
B	2	0	0	3	1
C	2	0	0	0	5
D	0	3	0	0	1
E	0	1	5	1	0

Question 2

Answer for each of these graphs: Is it planar? Is it bipartite?

(a)

(b)

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Graph Theory Exercises And Solutions:

    Exercises in Graph Theory O. Melnikov,V. Sarvanov,R.I. Tyshkevich,Vladimir Yemelichev,Igor E. Zverovich,1998-03-31 This book supplements the textbook of the authors Lectures on Graph The ory 6 by more than thousand exercises of varying complexity The books match each other in their contents notations and terminology The authors hope that both students and lecturers will find this book helpful for mastering and verifying the understanding of the peculiarities of graphs The exercises are grouped into eleven chapters and numerous sections accord ing to the topics of graph theory paths cycles components subgraphs re constructibility operations on graphs graphs and matrices trees independence matchings coverings connectivity matroids planarity Eulerian and Hamiltonian graphs degree sequences colorings digraphs hypergraphs Each section starts with main definitions and brief theoretical discussions They constitute a minimal background just a reminder for solving the exercises the presented facts and a more extended exposition may be found in Proofs of the mentioned textbook of the authors as well as in many other books in graph theory Most exercises are supplied with answers and hints In many cases complete solutions are given At the end of the book you may find the index of terms and the glossary of notations The Bibliography list refers only to the books used by the authors during the preparation of the exercisebook Clearly it mentions only a fraction of available books in graph theory The invention of the authors was also driven by numerous journal articles which are impossible to list here   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   **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   *Walk Through Combinatorics, A: An Introduction To Enumeration And*

Graph Theory (Third Edition) Miklos Bona,2011-05-09 This is a textbook for an introductory combinatorics course lasting one or two semesters An extensive list of problems ranging from routine exercises to research questions is included In each section there are also exercises that contain material not explicitly discussed in the preceding text so as to provide instructors with extra choices if they want to shift the emphasis of their course Just as with the first two editions the new edition walks the reader through the classic parts of combinatorial enumeration and graph theory while also discussing some recent progress in the area on the one hand providing material that will help students learn the basic techniques and on the other hand showing that some questions at the forefront of research are comprehensible and accessible to the talented and hardworking undergraduate The basic topics discussed are the twelvefold way cycles in permutations the formula of inclusion and exclusion the notion of graphs and trees matchings Eulerian and Hamiltonian cycles and planar graphs The selected advanced topics are Ramsey theory pattern avoidance the probabilistic method partially ordered sets the theory of designs new to this edition enumeration under group action new to this edition generating functions of labeled and unlabeled structures and algorithms and complexity As the goal of the book is to encourage students to learn more combinatorics every effort has been made to provide them with a not only useful but also enjoyable and engaging reading The Solution Manual is available upon request for all instructors who adopt this book as a course text Please send your request to sales wspc com

Introduction to Graph Theory Robin J. Wilson,1996 Graph Theory has recently emerged as a subject in its own right as well as being an important mathematical tool in such diverse subjects as operational research chemistry sociology and genetics Robin Wilson s book has been widely used as a text for undergraduate courses in mathematics computer science and economics and as a readable introduction to the subject for non mathematicians The opening chapters provide a basic foundation course containing such topics as trees algorithms Eulerian and Hamiltonian graphs planar graphs and colouring with special reference to the four colour theorem Following these there are two chapters on directed graphs and transversal theory relating these areas to such subjects as Markov chains and network flows Finally there is a chapter on matroid theory which is used to consolidate some of the material from earlier chapters For this new edition the text has been completely revised and there is a full range of exercises of varying difficulty There is new material on algorithms tree searches and graph theoretical puzzles Full solutions are provided for many of the exercises Robin Wilson is Dean and Director of Studies in the Faculty of Mathematics and Computing at the Open University   Exercises in Graph Theory O. Melnikov,V. Sarvanov,R. I. Tyshkevich,2014-01-15   Graph Theory and Its Applications Jonathan L. Gross,Jay Yellen,2005-09-22 Already an international bestseller with the release of this greatly enhanced second edition Graph Theory and Its Applications is now an even better choice as a textbook for a variety of courses a textbook that will continue to serve your students as a reference for years to come The superior explanations broad coverage and abundance   Complex and Adaptive Dynamical Systems Claudius Gros,2015-04-01 This primer offers readers an introduction to the central concepts that form our modern

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Underdetermined Linear Systems and Their Applications Ming-Jun Lai,Yang Wang,2021-06-25 This textbook presents a special solution to underdetermined linear systems where the number of nonzero entries in the solution is very small compared to the total number of entries This is called a sparse solution Since underdetermined linear systems can be very different the authors explain how to compute a sparse solution using many approaches Sparse Solutions of Underdetermined Linear Systems and Their Applications contains 64 algorithms for finding sparse solutions of underdetermined linear systems and their applications for matrix completion graph clustering and phase retrieval and provides a detailed explanation of these algorithms including derivations and convergence analysis Exercises for each chapter help readers understand the material This textbook is appropriate for graduate students in math and applied math computer science statistics data science and engineering Advisors and postdoctoral scholars will also find the book interesting and useful   Graphs, Networks and Algorithms Dieter Jungnickel,2007-09-26 From the reviews of the 2nd edition The substantial development effort of this text clearly shows through in this new edition with its clear writing good organisation comprehensive coverage of essential theory and well chosen applications The proofs of important results and the representation of key algorithms in a Pascal like notation allow this book to be used in a high level undergraduate or low level graduate course on graph theory combinatorial optimization or computer science algorithms The well worked solutions to exercises are a real bonus for self study by students The book is highly recommended Zentralblatt f r Mathematik 2005 The third edition of this standard textbook contains additional material two new application sections on graphical codes and their decoding and about two dozen further exercises with solutions as throughout the text Moreover recent developments have been discussed and referenced in particular for the travelling salesman problem The presentation has been improved in many places for instance in the chapters on shortest paths and on colorings and a number of proofs have been reorganized making them more precise or more transparent   *Fibonacci and Lucas Numbers with Applications, Volume 2* Thomas Koshy,2018-12-14 Volume II provides an advanced approach to the extended gibonacci family which includes Fibonacci Lucas Pell Pell Lucas Jacobsthal Jacobsthal Lucas Vieta Vieta Lucas and Chebyshev polynomials of both kinds This volume offers a uniquely unified extensive and historical approach that will appeal to both students and professional mathematicians As in Volume I Volume II focuses on problem solving techniques such as pattern recognition conjecturing proof techniques and applications It offers a wealth of delightful opportunities to explore and experiment as well as plentiful material for group discussions seminars presentations and collaboration In addition the material covered in this book promotes intellectual curiosity creativity and ingenuity Volume II features A wealth of examples applications and exercises of varying degrees of difficulty and sophistication Numerous combinatorial and graph theoretic proofs and techniques A uniquely thorough discussion of gibonacci subfamilies and the fascinating relationships that link them Examples of the beauty power and ubiquity of the extended gibonacci family An introduction to tribonacci polynomials and numbers and their combinatorial and graph

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