

CS2336 DISCRETE MATHEMATICS

Exam 3

January 06, 2020 (10:10–12:30)

Answer all questions. Total marks = 105. Maximum Score = 105/100. Large portion of marks may be deducted for incomplete proofs.

1. (15%) Let A , B , and C be three sets. It is known that the following are true.

- $|A| = 13$;
- $|B| = 11$;
- $|A \cap C| = 6$;
- $|A \cup C| = 24$;
- $|B \cup C| = 20$;
- $|(A \cup C) - B| = 16$.

Find $|(A \cap B) - C|$. (Hint: Draw a Venn diagram to help.)

2. (a) (10%) Let X and Y be countable sets. Show that $X \cup Y$ is countable.

(b) Let

$$Z = \{z \mid z^2 = n/m \text{ for some } n, m \in \mathbb{N}\}$$

denote the set of square roots of positive rational numbers.

(10%) Using the result of (a), or otherwise, show that Z is countable.

3. Let $f : \mathbb{Z}^+ \rightarrow \mathbb{Z}^+$ be a function such that

$$f(x) = \begin{cases} x + 1 & \text{if } x \text{ is not a multiple of 3} \\ x - 2 & \text{if } x \text{ is a multiple of 3} \end{cases}$$

(a) (10%) Determine if f is one-one. Explain your answer.

(b) (10%) Determine if f is onto. Explain your answer.

4. (15%) Let $S = \{x, y, z\}$. Construct a binary relation R on S such that R is anti-symmetric and not reflexive, **but** the transitive closure of R is both symmetric and reflexive.

(Note: You may describe R with a directed graph.)

5. (15%)

(a) (5%) Draw two non-isomorphic simple connected undirected graphs H_1 and H_2 , each with 4 vertices and with the same number of edges.

(b) (10%) Show that H_1 and H_2 are non-isomorphic.

6. (15%)

(a) (5%) Draw a simple connected undirected graph G with 7 vertices and 10 edges that is non-planar.

(b) (10%) Show that G is non-planar.

Note: You may assume that Kuratowski's theorem is correct.

Discrete Math Final Exam Answers

Douglas E. Ensley, J. Winston Crawley

Discrete Math Final Exam Answers

Mathematics for Computer Science Eric Lehman, F. Thomson Leighton, Albert R. Meyer, 2017-03-08 This book covers elementary discrete mathematics for computer science and engineering It emphasizes mathematical definitions and proofs as well as applicable methods Topics include formal logic notation proof methods induction well ordering sets relations elementary graph theory integer congruences asymptotic notation and growth of functions permutations and combinations counting principles discrete probability Further selected topics may also be covered such as recursive definition and structural induction state machines and invariants recurrences generating functions

Discrete and Combinatorial Mathematics Ralph P. Grimaldi, 1993-10-01 Discrete Mathematics and Its Applications Kenneth H. Rosen, 2018-05 A precise relevant comprehensive approach to mathematical concepts Discrete Mathematics Douglas E. Ensley, J. Winston Crawley, 2005-10-07 These active and well known authors have come together to create a fresh innovative and timely approach to Discrete Math One innovation uses several major threads to help weave core topics into a cohesive whole Throughout the book the application of mathematical reasoning is emphasized to solve problems while the authors guide the student in thinking about reading and writing proofs in a wide variety of contexts Another important content thread as the sub title implies is the focus on mathematical puzzles games and magic tricks to engage students

A Short Course in Discrete Mathematics Edward A. Bender, S. Gill Williamson, 2005-01-01 What sort of mathematics do I need for computer science In response to this frequently asked question a pair of professors at the University of California at San Diego created this text Its sources are two of the university's most basic courses Discrete Mathematics and Mathematics for Algorithm and System Analysis Intended for use by sophomores in the first of a two quarter sequence the text assumes some familiarity with calculus Topics include Boolean functions and computer arithmetic logic number theory and cryptography sets and functions equivalence and order and induction sequences and series Multiple choice questions for review appear throughout the text Original 2005 edition Notation Index Subject Index

Essentials of Discrete Mathematics David J. Hunter, 2015-08-21 Written for the one term course the Third Edition of Essentials of Discrete Mathematics is designed to serve computer science majors as well as students from a wide range of disciplines The material is organized around five types of thinking logical relational recursive quantitative and analytical This presentation results in a coherent outline that steadily builds upon mathematical sophistication Graphs are introduced early and referred to throughout the text providing a richer context for examples and applications students will encounter algorithms near the end of the text after they have acquired the skills and experience needed to analyze them The final chapter contains in depth case studies from a variety of fields including biology sociology linguistics economics and music

Discrete Mathematics Oscar Levin, 2016-08-16 This gentle introduction to discrete mathematics is written for first and second year math majors especially those who intend to teach

The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the introduction to proof course for math majors. The course is usually taught with a large amount of student inquiry and this text is written to help facilitate this. Four main topics are covered: counting sequences, logic, and graph theory. Along the way, proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 360 exercises, including 230 with solutions and 130 more involved problems suitable for homework. There are also Investigate activities throughout the text to support active inquiry-based learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry-rich course; it is written to be used in a course for future math teachers; it is open source with low-cost print editions and free electronic editions.

Discrete Mathematics with Applications, Metric Edition Susanna Epp, 2019. DISCRETE MATHEMATICS WITH APPLICATIONS 5th Edition, Metric Edition explains complex abstract concepts with clarity and precision and provides a strong foundation for computer science and upper-level mathematics courses of the computer age. Author Susanna Epp presents not only the major themes of discrete mathematics but also the reasoning that underlies mathematical thought. Students develop the ability to think abstractly as they study the ideas of logic and proof. While learning about such concepts as logic circuits and computer addition algorithm analysis, recursive thinking, computability, automata, cryptography, and combinatorics, students discover that the ideas of discrete mathematics underlie and are essential to today's science and technology.

Discrete Mathematics with Proof Eric Gossett, 2009-06-22. A Trusted Guide to Discrete Mathematics with Proof. Now in a Newly Revised Edition. Discrete mathematics has become increasingly popular in recent years due to its growing applications in the field of computer science. Discrete Mathematics with Proof, Second Edition, continues to facilitate an up-to-date understanding of this important topic, exposing readers to a wide range of modern and technological applications. The book begins with an introductory chapter that provides an accessible explanation of discrete mathematics. Subsequent chapters explore additional related topics, including counting, finite probability theory, recursion, formal models in computer science, graph theory, trees, the concepts of functions and relations. Additional features of the Second Edition include an intense focus on the formal settings of proofs and their techniques, such as constructive proofs, proof by contradiction, and combinatorial proofs. New sections on applications of elementary number theory, multidimensional induction, counting tulips, and the binomial distribution. Important examples from the field of computer science are presented as applications, including the Halting problem, Shannon's mathematical model of information, regular expressions, XML, and Normal Forms in relational databases. Numerous examples that are not often found in books on discrete mathematics, including the deferred acceptance algorithm, the Boyer-Moore algorithm for pattern matching, Sierpinski curves, adaptive quadrature, the Josephus problem, and the five-color theorem. Extensive appendices that outline supplemental material on analyzing claims and writing mathematics, along with solutions to

selected chapter exercises Combinatorics receives a full chapter treatment that extends beyond the combinations and permutations material by delving into non standard topics such as Latin squares finite projective planes balanced incomplete block designs coding theory partitions occupancy problems Stirling numbers Ramsey numbers and systems of distinct representatives A related Web site features animations and visualizations of combinatorial proofs that assist readers with comprehension In addition approximately 500 examples and over 2 800 exercises are presented throughout the book to motivate ideas and illustrate the proofs and conclusions of theorems Assuming only a basic background in calculus *Discrete Mathematics with Proof* Second Edition is an excellent book for mathematics and computer science courses at the undergraduate level It is also a valuable resource for professionals in various technical fields who would like an introduction to discrete mathematics

Discrete Mathematics Richard Johnsonbaugh, 1993 This best selling book provides an accessible introduction to discrete mathematics through an algorithmic approach that focuses on problem solving techniques This edition has the techniques of proofs woven into the text as a running theme and each chapter has the problem solving corner The text provides complete coverage of Logic and Proofs Algorithms Counting Methods and the Pigeonhole Principle Recurrence Relations Graph Theory Trees Network Models Boolean Algebra and Combinatorial Circuits Automata Grammars and Languages Computational Geometry For individuals interested in mastering introductory discrete mathematics

Essentials of Discrete Mathematics David Hunter, 2010-12-29 This is the ideal text for a one term discrete mathematics course to serve computer scientists as well as other students It introduces students to the mathematical way of thinking and also to many important modern applications

Discrete Mathematics for Computer Science Gary Haggard, John Schlipf, Sue Whitesides, 2006 Master the fundamentals of discrete mathematics with DISCRETE MATHEMATICS FOR COMPUTER SCIENCE with Student Solutions Manual CD ROM An increasing number of computer scientists from diverse areas are using discrete mathematical structures to explain concepts and problems and this mathematics text shows you how to express precise ideas in clear mathematical language Through a wealth of exercises and examples you will learn how mastering discrete mathematics will help you develop important reasoning skills that will continue to be useful throughout your career

2000 Solved Problems in Discrete Mathematics Seymour Lipschutz, 2012-09-17 Master discrete mathematics with Schaum's the high performance solved problem guide It will help you cut study time hone problem solving skills and achieve your personal best on exams Students love Schaum's Solved Problem Guides because they produce results Each year thousands of students improve their test scores and final grades with these indispensable guides Get the edge on your classmates Use Schaum's If you don't have a lot of time but want to excel in class use this book to Brush up before tests Study quickly and more effectively Learn the best strategies for solving tough problems in step by step detail Review what you've learned in class by solving thousands of relevant problems that test your skill Compatible with any classroom text Schaum's Solved Problem Guides let you practice at your own pace and remind

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Discrete Mathematics Gary Chartrand,Ping Zhang,2011-03-31 Chartrand and Zhangs Discrete Mathematics presents a clearly written student friendly introduction to discrete mathematics The authors draw from their background as researchers and educators to offer lucid discussions and descriptions fundamental to the subject of discrete mathematics Unique among discrete mathematics textbooks for its treatment of proof techniques and graph theory topics discussed also include logic relations and functions especially equivalence relations and bijective functions algorithms and analysis of algorithms introduction to number theory combinatorics counting the Pascal triangle and the binomial theorem discrete probability partially ordered sets lattices and Boolean algebras cryptography and finite state machines This highly versatile text provides mathematical background used in a wide variety of disciplines including mathematics and mathematics education computer science biology chemistry engineering communications and business Some of the major features and strengths of this textbook Numerous carefully explained examples and applications facilitate learning More than 1 600 exercises ranging from elementary to challenging are included with hints answers to all odd numbered exercises Descriptions of proof techniques are accessible and lively Students benefit from the historical discussions throughout the textbook

Applied Discrete Structures Ken Levasseur,Al Doerr,2012-02-25 In writing this book care was taken to use language and examples that gradually wean students from a simpleminded mechanical approach and move them toward mathematical maturity We also recognize that many students who hesitate to ask for help from an instructor need a readable text and we have tried to anticipate the questions that go unasked The wide range of examples in the text are meant to augment the favorite examples that most instructors have for teaching the topics in discrete mathematics To provide diagnostic help and encouragement we have included solutions and or hints to the odd numbered exercises These solutions include detailed answers whenever warranted and complete proofs not just terse outlines of proofs Our use of standard terminology and notation makes Applied Discrete Structures a valuable reference book for future courses Although many advanced books have a short review of elementary topics they cannot be complete The text is divided into lecture length sections facilitating the organization of an instructor s presentation Topics are presented in such a way that students understanding can be monitored through thought provoking exercises The exercises require an understanding of the topics and how they are interrelated not just a familiarity with the key words An Instructor s Guide is available to any instructor who uses the text It includes Chapter by chapter comments on subtopics that

emphasize the pitfalls to avoid Suggested coverage times Detailed solutions to most even numbered exercises Sample quizzes exams and final exams This textbook has been used in classes at Casper College WY Grinnell College IA Luzerne Community College PA University of the Puget Sound WA Discrete Mathematics in the Schools Joseph G. Rosenstein,2000 A collection of articles written by experienced primary secondary and collegiate educators It explains why discrete mathematics should be taught in K 12 classrooms and offers guidance on how to do so It offers school and district curriculum leaders material that addresses how discrete mathematics can be introduced into their curricula *Discrete Mathematics and Its Applications* Kenneth H. Rosen,2007 The companion Web site To the student The foundations logic sets and functions The fundamentals algorithms the integers and matrices Mathematical reasoning Counting Advanced counting techniques Relations Graphs Trees Boolean algebra Modeling computation **Discrete Mathematics and Its Applications** Kenneth Rosen,2016-07-19 *Discrete Structures, Logic, and Computability* James L. Hein,2001 Discrete Structure Logic and Computability introduces the beginning computer science student to some of the fundamental ideas and techniques used by computer scientists today focusing on discrete structures logic and computability The emphasis is on the computational aspects so that the reader can see how the concepts are actually used Because of logic s fundamental importance to computer science the topic is examined extensively in three phases that cover informal logic the technique of inductive proof and formal logic and its applications to computer science Discrete Mathematics and Its Applications Kenneth H. Rosen,1999 This text is designed for the sophomore junior level introduction to discrete mathematics taken by students preparing for future coursework in areas such as math computer science and engineering Rosen has become a bestseller largely due to how effectively it addresses the main portion of the discrete market which is typically characterized as the mid to upper level in rigor The strength of Rosen s approach has been the effective balance of theory with relevant applications as well as the overall comprehensive nature of the topic coverage

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