# Chapter 1

# Solutions to Selected Exercises

#### Section 1.1

2. {2,4} 3. {7,10} 5. {2,3,5,6,8,9} 6. {1,3,5,7,9,10}

8. A 9. Ø 11. B 12. {1,4} 14. {1}

15. {2,3,4,5,6,7,8,9,10} 18. I 19. 3

We find that B = {2,3}. Since A and B have the same elements, they are equal.

23. Let x ∈ A. Then x = 1, 2, 3. If x = 1, since 1 ∈ Z<sup>+</sup> and 1<sup>2</sup> < 10, then x ∈ B. If x = 2, since 2 ∈ Z<sup>+</sup> and 2<sup>2</sup> < 10, then x ∈ B. If x = 3, since 3 ∈ Z<sup>+</sup> and 3<sup>2</sup> < 10, then x ∈ B. Thus if x ∈ A, then x ∈ B.</p>

Now suppose that  $x \in B$ . Then  $x \in \mathbb{Z}^+$  and  $x^2 < 10$ . If  $x \ge 4$ , then  $x^2 > 10$  and, for these values of x,  $x \notin B$ . Therefore x = 1, 2, 3. For each of these values,  $x^2 < 10$  and x is indeed in B. Also, for each of the values  $x = 1, 2, 3, x \in A$ . Thus if  $x \in B$ , then  $x \in A$ . Therefore A = B.

26. Since  $(-1)^3 - 2(-1)^2 - (-1) + 2 = 0$ ,  $-1 \in B$ . Since  $-1 \notin A$ ,  $A \neq B$ .

27. Since  $3^2-1>3$ ,  $3\notin B$ . Since  $3\in A$ ,  $A\neq B$ . 30. Equal 31. Not equal

34. Let  $x \in A$ . Then x = 1, 2. If x = 1,

$$x^3 - 6x^2 + 11x = 1^3 - 6 \cdot 1^2 + 11 \cdot 1 = 6.$$

Thus  $x \in B$ . If x = 2,

$$x^3 - 6x^2 + 11x = 2^3 - 6 \cdot 2^2 + 11 \cdot 2 = 6$$

Again  $x \in B$ . Therefore  $A \subseteq B$ .

Let x ∈ A. Then x = (1, 1) or x = (1, 2). In either case, x ∈ B. Therefore A ⊆ B.

Since (-1)<sup>3</sup> - 2(-1)<sup>2</sup> - (-1) + 2 = 0, -1 ∈ A. However, -1 ∉ B. Therefore A is not a subset of B.

39. Consider 4, which is in A. If 4 ∈ B, then 4 ∈ A and 4 + m = 8 for some m ∈ C. However, the only value of m for which 4 + m = 8 is m = 4 and 4 ∉ C. Therefore 4 ∉ B. Since 4 ∈ A and 4 ∉ B, A is not a subset of B.

# **Answer Key For Discrete Mathematics Seventh Edition**

Mark Barnes, Pauline Holland, Jennifer Nolan, Geoff Phillips

#### **Answer Key For Discrete Mathematics Seventh Edition:**

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Introduction is intended for a first or second year discrete mathematics course for computer science majors It covers many important mathematical topics essential for future computer science majors such as algorithms number representations logic set theory Boolean algebra functions combinatorics algorithmic complexity graphs and trees Features Designed to be especially useful for courses at the community college level Ideal as a first or second year textbook for computer science majors or as a general introduction to discrete mathematics Written to be accessible to those with a limited mathematics background and to aid with the transition to abstract thinking Filled with over 200 worked examples boxed for easy reference and over 200 practice problems with answers Contains approximately 40 simple algorithms to aid students in becoming proficient with algorithm control structures and pseudocode Includes an appendix on basic circuit design which provides a real world motivational example for computer science majors by drawing on multiple topics covered in the book to design a circuit that adds two eight digit binary numbers Jon Pierre Fortney graduated from the University of Pennsylvania in 1996 with a BA in Mathematics and Actuarial Science and a BSE in Chemical Engineering Prior to returning to graduate school he worked as both an environmental engineer and as an actuarial analyst He graduated from Arizona State University in 2008 with a PhD in Mathematics specializing in Geometric Mechanics Since 2012 he has worked at Zayed University in Dubai This is his second mathematics textbook 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 The Discrete Math Workbook Sergei Kurgalin, Sergei Borzunov, 2018-07-31 This practically oriented textbook presents an accessible introduction to discrete mathematics through a substantial collection of classroom tested exercises Each chapter opens with concise coverage of the theory underlying the topic reviewing the basic concepts and establishing the terminology as well as providing the key formulae and instructions on their use This is then followed by a detailed account of the most common problems in the area before the reader is invited to practice solving such problems for themselves through a varied series of questions and assignments Topics and features provides an extensive set of exercises and examples of varying levels of complexity suitable for both laboratory practical training and self study offers detailed solutions to many problems applying commonly used methods and computational schemes introduces the fundamentals of mathematical logic the theory of algorithms Boolean algebra graph theory sets relations functions and combinatorics presents more advanced material on the design and analysis of algorithms including asymptotic analysis and parallel algorithms includes reference lists of trigonometric and finite summation formulae in an appendix together with basic rules for differential and integral calculus This hands on study guide is designed to address the

core needs of undergraduate students training in computer science informatics and electronic engineering emphasizing the skills required to develop and implement an algorithm in a specific programming language **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 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** Norman Biggs, 2002-12-19 Discrete mathematics is a compulsory subject for undergraduate computer scientists This new edition includes new chapters on statements and proof logical framework natural numbers and the integers and updated exercises from the previous edition Another Sort of Mathematics Jake Tawney, 2025-07-29 Years ago James V Schall wrote Another Sort of Learning a book listing those things you should read but probably were never required to read It is not a curriculum except maybe one for life This book you have in your hands is something of a mathematical tribute to Schall's basic idea and is aptly titled Another Sort of Mathematics

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terminology relating to mathematics teaching and learning and used by mathematics educators is an essential component of work conducted in the field The authors provide an overview of more than 100 terms commonly used in mathematics teaching and learning Each term is defined and is followed by a short overview of the concept under discussion that includes several bibliographic references the reader can use for further investigation In addition to terms specific to the domain of mathematics education select key terms common across all fields of education e g curriculum epistemology metacognition are included The goal for this book is to serve as a resource for those entering the field as they navigate the language and terminology of mathematics education and as an asset for more established professionals who wish to gain additional insights **Catalog of NIE Education Products** ,1978 **Catalog of NIE Education Products National** Institute of Education (U.S.),1975 The Future of College Mathematics A. Ralston, G. S. Young, 2012-12-06 The Conference Workshop of which these are the proceedings was held from 28 June to 1 July 1982 at Williams College Williamstown MA The meeting was funded in its entirety by the Alfred P Sloan Foundation The conference program and the list of participants follow this introduction The purpose of the conference was to discuss the re structuring of the first two years of college mathematics to provide some balance between the traditional ca1cu1us linear algebra sequence and discrete mathematics The remainder of this volume contains arguments both for and against such a change and some ideas as to what a new curriculum might look like A too brief summary of the deliberations at Williams is that while there were and are inevitable differences of opinion on details and nuance at least the attendees at this conference had no doubt that change in the lower division mathematics curriculum is desirable and is coming *Major League Hitting Answers from the Third Guarantee Alan* Khoury, 2024-01-15 About the Book The outcome isn t in doubt These guys will hit I m life s third guarantee the Third Guarantee In your hands you hold the answers to hitting major league down away pitches off or over the open side power alley wall You also hold the answers to driving in a runner on second base with two outs There isn t a talent shortage in major league baseball There is a skills shortage specifically 6 9 hitters who can drive outside pitches and breaking balls away off or over the open side power alley wall Build the muscle memory associated with these two skill sets by Re creating pitcher Release Point with variables controlled Placing your batting tee on the inside edge or the outside edge of the plate during drills Placing the batting tee on the outside edge of the plate even with your back knee Using hands hip swing mechanics to accelerate the bat head through outside Point of Contact In 2003 while working with the Third Guarantee a 7 year major league veteran hitting 207 said No one has told me this No one has showed me this No one has told me to prepare this way I ve never seen this kind of instruction With 6 hours of instruction over 3 weekends the 7 year veteran hit 276 the last 3 months of the season He hit for more power drove in more runs and improved his walk to strikeout ratio Struggling major league hitters don t need this book if their muscle memory development includes the four above guidelines About the Author Alan Khoury has offered the Third Guarantee's answers to players major league team executives owners and agents for 17

years From day one of his offering efforts none of these people said the provided information was incorrect He now offers these answers to any struggling hitter MSCEIS 2019 Lala Septem Riza, Eka Cahya Prima, Toni Hadibarata, Peter John Aubusson, 2020-07-30 The 7th Mathematics Science and Computer Science Education International Seminar MSCEIS was held by the Faculty of Mathematics and Natural Science Education Universitas Pendidikan Indonesia UPI and the collaboration with 12 University associated in Asosiasi MIPA LPTK Indonesia AMLI consisting of Universitas Negeri Semarang UNNES Universitas Pendidikan Indonesia UPI Universitas Negeri Yogyakarta UNY Universitas Negeri Malang UM Universitas Negeri Jakarta UNI Universitas Negeri Medan UNIMED Universitas Negeri Padang UNP Universitas Negeri Manado UNIMA Universitas Negeri Makassar UNM Universitas Pendidikan Ganesha UNDHIKSA Universitas Negeri Gorontalo UNG and Universitas Negeri Surabaya UNESA In this year MSCEIS 2019 takes the following theme Mathematics Science and Computer Science Education for Addressing Challenges and Implementations of Revolution Industry 4 0 held on October 12 2019 in Bandung West Java Indonesia **DNA Based Computers II** DIMACS (Group),1999 The fledgling field of DNA computers began in 1994 when Leonard Adleman surprised the scientific community by using DNA molecules protein enzymes and chemicals to solve an instance of a hard computational problem This volume presents results from the second annual meeting on DNA computers held at Princeton only one and one half years after Adleman's discovery By drawing on the analogy between DNA computing and cutting edge fields of biology such as directed evolution this volume highlights some of the exciting progress in the field and builds a strong foundation for the theory of molecular computation

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