

MATH 271 DISCRETE MATHEMATICS
PRACTICE PROBLEMS 6: RELATIONS – HINTS & SOLUTIONS

Exercise 1. Consider the relation R on \mathbb{Z}^+ defined by: $\forall a, b \in \mathbb{Z}^+, aRb$ if and only if $\gcd(a, b) = 1$. Is R reflexive? symmetric? antisymmetric? transitive?

Solution 1.

- R is not reflexive. Choose $2 \in \mathbb{Z}^+$, and $\gcd(2, 2) = 2 \neq 1$; therefore, 2 is not related to 2 .
- R is symmetric. Suppose $a, b \in \mathbb{Z}^+$, then by definition $\gcd(a, b) = \gcd(b, a)$ and so bRa .
- R is not antisymmetric; for instance $\gcd(2, 3) = 1 = \gcd(3, 2)$ so $2R3$ and $3R2$, but $2 \neq 3$.
- R is not transitive; for instance, $2, 3, 4 \in \mathbb{Z}^+$, $2R3$ because $\gcd(2, 3) = 1$ and $3R4$ because $\gcd(3, 4) = 1$, but 2 is not related to 4 because $\gcd(2, 4) = 2 \neq 1$.

Exercise 2. Consider the relation T on \mathbb{Z} defined by: $\forall x, y \in \mathbb{Z}, xTy$ if and only if $3 | 2x + y$. Is T reflexive? symmetric? antisymmetric? transitive?

Solution 2.

- T is reflexive. Suppose $a \in \mathbb{Z}$, then $2a + a = 3a$ is divisible by 3 (because $a \in \mathbb{Z}$); therefore, by definition aTa .
- T is symmetric. Suppose $a, b \in \mathbb{Z}$, and suppose aTb . Then by definition of T , 3 divides $2a + b$, so there exists $k \in \mathbb{Z}$ so that $2a + b = 3k$. Now, we see that

$$2b + a = 2b + b - b + a + 2a - 2a = 3b + 3a - (2a + b) = 3b + 3a - 3k = 3(a + b - k),$$
 therefore, since $a + b - k \in \mathbb{Z}$, 3 divides $2b + a$ and bTa .
- T is reflexive. Suppose $a, b, c \in \mathbb{Z}$. Suppose that aTb and bTc . Then by definition of T , $3 | 2a + b$ and $3 | 2b + c$. Then there exists $k, \ell \in \mathbb{Z}$ so that $2a + b = 3k$ and $2b + c = 3\ell$. Now it follows that

$$2a + c = 2a + b - b + 2b + c = 3k + 3\ell - 3b = 3(k + \ell - b),$$
 therefore, since $k + \ell - b \in \mathbb{Z}$, 3 divides $2a + c$ and aTc .

Thus, T is an equivalence relation, i.e., T is reflexive, symmetric and transitive.

Now you show that T is not antisymmetric.

Exercise 3. Recall that for any finite set S , $|S|$ denotes the number of elements in S .

Let $A = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$ and let $B = \{1, 3, 5, 7, 9\}$. Let R be the relation on $\mathcal{P}(A)$ (the power set of A) defined by: for all $X, Y \in \mathcal{P}(A)$, $X R Y$ if and only if $|X \cap B| = |Y \cap B|$.

Is R reflexive? symmetric? antisymmetric? transitive?

Solution 3.

Claim: R is reflexive: Suppose that $X \in \mathcal{P}(A)$. Since $|X \cap B| = |X \cap B|$, it follows from the definition of R that XRX . Thus, R is reflexive.

Claim: R is symmetric: Suppose that $X, Y \in \mathcal{P}(A)$. Suppose that XRY . By definition of R , $|X \cap B| = |Y \cap B|$. Moreover, $|Y \cap B| = |X \cap B|$ and so YRX , that is R is symmetric.

Claim: R is not antisymmetric: Indeed, $X = \{1\}$ and $Y = \{3\}$ are elements of $\mathcal{P}(A)$ that satisfy XRY and YRX (you can check!), but $X \neq Y$ since $1 \in X$ but $1 \notin Y$.

Claim: R is transitive: Suppose that $X, Y, Z \in \mathcal{P}(A)$. Suppose that XRY and YRZ . Since XRY , we have $|X \cap B| = |Y \cap B|$. Since YRZ , it follows that $|Y \cap B| = |Z \cap B|$. Therefore,

$$|X \cap B| = |Y \cap B| = |Z \cap B|$$

and so XRZ . Thus, R is transitive.

Exercise 4. Let $S = \{1, 2, 3, 4\}$. If possible, define a relation R on S so that:

Practice Problems In Discrete Mathematics

**Milan Randic, Marjana Novic, Dejan
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ANONIMO,2003-08-01 **Discrete Mathematics** Oscar Levin,2025-03-05 Discrete Mathematics An Open Introduction

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sections on probability relations and discrete structures and their proofs **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 Beginner's Guide to Discrete Mathematics* W. D. Wallis,2003 This introduction to discrete mathematics is aimed primarily at undergraduates in mathematics and computer science at the freshmen and sophomore levels The text has a distinctly applied orientation and begins with a survey of number systems and elementary set theory Included are discussions of scientific notation and the representation of numbers in computers Lists are presented as an example of data structures An introduction to counting includes the Binomial Theorem and mathematical induction which serves as a starting point for a brief study of recursion The basics of probability theory are then covered Graph study is discussed including Euler and Hamilton cycles and trees This is a vehicle for some easy proofs as well as serving as another example of a data structure Matrices and vectors are then defined The book concludes with an introduction to cryptography including the RSA cryptosystem together with the necessary elementary number theory e g Euclidean algorithm Fermat's Little Theorem Good examples occur throughout At the end of every section there are two problem sets of equal difficulty However solutions are only given to the first set References and index conclude the work A math course at the college level is required to handle this text College algebra would be the most helpful *Fundamentals of Discrete Math for Computer Science* Tom Jenkyns,Ben

Stephenson,2012-10-16 This textbook provides an engaging and motivational introduction to traditional topics in discrete mathematics in a manner specifically designed to appeal to computer science students The text empowers students to think critically to be effective problem solvers to integrate theory and practice and to recognize the importance of abstraction Clearly structured and interactive in nature the book presents detailed walkthroughs of several algorithms stimulating a conversation with the reader through informal commentary and provocative questions Features no university level background in mathematics required ideally structured for classroom use and self study with modular chapters following ACM curriculum recommendations describes mathematical processes in an algorithmic manner contains examples and exercises throughout the text and highlights the most important concepts in each section selects examples that demonstrate a practical use for the concept in question Principles and Practice of Constraint Programming - CP '95 Ugo Montanari,1995-09-06 This book constitutes the proceedings of the First International Conference on Principles and Practice of Constraint Programming CP 95 held in Cassis near Marseille France in September 1995 The 33 refereed full papers included were selected out of 108 submissions and constitute the main part of the book in addition there is a 60 page

documentation of the four invited papers and a section presenting industrial reports Thus besides having a very strong research component the volume will be attractive for practitioners The papers are organized in sections on efficient constraint handling constraint logic programming concurrent constraint programming computational logic applications and operations research *Solved and Unsolved Problems of Structural Chemistry* Milan Randic,Marjana Novic,Dejan Plavsic,2016-04-21 Solved and Unsolved Problems of Structural Chemistry introduces new methods and approaches for solving problems related to molecular structure It includes numerous subjects such as aromaticity one of the central themes of chemistry and topics from bioinformatics such as graphical and numerical characterization of DNA proteins and proteomes It a *MCAT Physics and Math Review 2019-2020* Kaplan Test Prep,2018-07-03 Kaplan s MCAT Physics and Math Review 2019 2020 offers an expert study plan detailed subject review and hundreds of online and in book practice questions all authored by the experts behind the MCAT prep course that has helped more people get into medical school than all other major courses combined Prepping for the MCAT is a true challenge Kaplan can be your partner along the way offering guidance on where to focus your efforts and how to organize your review This book has been updated to match the AAMC s guidelines precisely no more worrying if your MCAT review is comprehensive The Most Practice More than 350 questions in the book and access to even more online more practice than any other MCAT physics and math book on the market The Best Practice Comprehensive physics and math subject review is written by top rated award winning Kaplan instructors Full color 3 D illustrations from Scientific American charts graphs and diagrams help turn even the most complex science into easy to visualize concepts All material is vetted by editors with advanced science degrees and by a medical doctor Online resources including a full length practice test help you practice in the same computer based format you ll see on Test Day Expert Guidance High yield badges throughout the book identify the top 100 topics most tested by the AAMC We know the test The Kaplan MCAT team has spent years studying every MCAT related document available Kaplan s expert psychometricians ensure our practice questions and study materials are true to the test **Handbook on Differentiated Instruction for Middle & High Schools** Sheryn Spencer-Waterman,2014-01-09 This book has an abundance of time saving practical strategies for teachers in grades 6 12 A treasury of activities and resources this book explains demonstrates and helps you select among a wide variety of differentiation processes such as whole class differentiation tiered lessons learning centers flexible grouping literature circles individualized instruction independent study and learning contracts **Two Thousand Solved Problems in Discrete Mathematics** Seymour Lipschutz,Marc Lipson,1992 [Art And Practice Of Mathematics, The: Interviews At The Institute For Mathematical Sciences, National University Of Singapore, 2010-2020](#) Yu Kiang Leong,2021-06-23 This book constitutes the second volume of interviews with prominent mathematicians and mathematical scientists who visited the Institute for Mathematical Sciences National University of Singapore First published in the Institute s newsletter Imprints during the period 2010 2020 they offer glimpses of an esoteric universe as viewed and

experienced by some of the leading and creative practitioners of the craft of mathematics. The topics covered in this volume are wide ranging running from pure mathematics logic number theory algebraic geometry to applied mathematics mathematical modeling fluid dynamics through probability and statistics mathematical physics theoretical computer science and financial mathematics. This eclectic mix of the abstract and the concrete should interest those who are enthralled by the mystique and power of mathematics whether they are students researchers or the non specialists. By briefly tracing the paths traveled by the pioneers of different national backgrounds the interviews attempt to put a cultural face to an intellectual endeavor that is often perceived as dry and austere by the uninitiated. They should also interest those who are intrigued by the influence of the environment on the creative spirit and in particular those who are interested in the psychology and history of ideas.

Math Problems in Water and Wastewater Subhash Verma, 2024-11-29 This book covers the fundamental concepts required to solve typical problems in water and wastewater engineering. Water professionals working in the industry require a license to work in water plants and *Math Problems in Water and Wastewater* aids readers in preparing for the mathematics portion of these exams. It lays a sound foundation that not only helps with the certification examination but also helps water operators in performing their daily activities. The basic concepts and volumes of various unit devices followed by specific problems in water and water treatment are presented through solved example problems. Includes examples both in Imperial and SI units throughout. Covers common and specific topics both for water and wastewater operations. All calculations shown with unit cancellation. All example problems are followed by practice problems. Examples include problems suitable for all level of certification. A brief description of the water and wastewater treatment is given.

Emerging Research, Practice, and Policy on Computational Thinking Peter J. Rich, Charles B. Hodges, 2017-04-24 This book reports on research and practice on computational thinking and the effect it is having on education worldwide both inside and outside of formal schooling. With coding becoming a required skill in an increasing number of national curricula e.g. the United Kingdom Israel Estonia Finland the ability to think computationally is quickly becoming a primary 21st century basic domain of knowledge. The authors of this book investigate how this skill can be taught and its resultant effects on learning throughout a student's education from elementary school to adult learning.

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