Combinatorics Problems, Part 1

1. Show that $\binom{r}{r} + \binom{r+1}{r} + \cdots + \binom{n}{r} = \binom{n+1}{r+1}$.

2. Find a nice formulation for the sum $\binom{n}{0}^2 + \binom{n}{1}^2 + \cdots + \binom{n}{n}^2$.

3. Let $S_n = \binom{n}{0} + \binom{n-1}{1} + \cdots + \binom{n-2\lfloor \frac{n}{2} \rfloor}{\lfloor \frac{n}{2} \rfloor}$. Show that $S_n = F_n$.

4. Given $S = \{1, 2, \cdots, n\}$, How many unordered pairs $\{A, B\}$ are there where A and B are nonempty subsets of S with $A \cap B = \emptyset$.

5. Do there exist 10,000 10-digit numbers which are all divisible by 7 and are all rearrangements of the same digits.

6. A person has a coat of area 1 composed of five possibly overlapping patches. The area of each patch is at least $\frac{1}{2}$. Prove that there are two patches whose overlap has area of at least $\frac{1}{5}$.

7. A permutation of n elements is a one-to-one function $\pi: \{1, 2, \cdots, k\} \to \{1, 2, \cdots, k\}$. A permutation π of $\{1, 2, 3, \cdots, 2n\}$ has property P if $|\pi(i) - \pi(i+1)| = n$ for at least one i. Show that for any $n \in \mathbb{Z}$, there are more permutations with property P that without it.

8. Let M be a set of $n \geq 4$ points in the plane, no three of which are collinear. Initially these points are connected with n segments so that each point in M is the endpoint of exactly two segments. Then, we perform moves where we choose two segments AB and CD that intersect and replace them by the segments AC and BD if none of them is present.

Prove that it is impossible to perform $\frac{n^3}{4}$ moves.

[Combinatorics Problems And Solutions](#)

Richard Kohar

Combinatorics Problems And Solutions:

    Combinatorics II Problems and Solutions Stefan Hollos,J. Richard Hollos,2016-11-01 This book deals mainly with pattern counting problems It is a continuation of our previous combinatorics problem book There are 80 problems with detailed solutions including 70 figures many of which are examples of patterns The book will teach you powerful methods for counting patterns These methods should be in the toolbox of every combinatorialist It also provides the means to generate patterns with programs that can be downloaded from the book s web page at abrazol com The book starts with patterns that can be described by regular expressions and finite automata It shows how to get generating functions for families of patterns from a regular expression or it s corresponding finite automaton It then looks at pattern counting problems that involve equivalence under symmetry For example how many unique necklaces can one construct using beads of 3 different colors if a rotated necklace is considered the same as the original These problems are surprisingly easy to answer using a method called Polya s theory of counting This method and its more general form called Burnside s theorem are covered There are many worked out problems that show how to use these methods Included are problems that find the number of unique ways to color the Platonic solids   **Problems & Solutions in Theoretical & Mathematical Physics: Introductory level** W.-H. Steeb,2003 This book is a collection of problems with detailed solutions which will prove valuable to students and research workers in mathematics physics engineering and other sciences The topics range in difficulty from elementary to advanced level Almost all the problems are solved in detail and most of them are self contained All relevant definitions are given Students can learn important principles and strategies required for problem solving Teachers will find this text useful as a supplement since important concepts and techniques are developed through the problems The material has been tested in the author s lectures given around the world The book is divided into two volumes Volume I presents the introductory problems for undergraduate and advanced undergraduate students In Volume II the more advanced problems together with detailed solutions are collected to meet the needs of graduate students and researchers The problems included cover most of the new fields in theoretical and mathematical physics such as Lax representation Backlund transformation soliton equations Lie algebra valued differential forms the Hirota technique the Painleve test the Bethe ansatz the Yang Baxter relation chaos fractals complexity etc   *Combinatorial Problems and Exercises* László Lovász,2007 The main purpose of this book is to provide help in learning existing techniques in combinatorics The most effective way of learning such techniques is to solve exercises and problems This book presents all the material in the form of problems and series of problems apart from some general comments at the beginning of each chapter In the second part a hint is given for each exercise which contains the main idea necessary for the solution but allows the reader to practice theechniques by completing the proof In the third part a full solution is provided for each problem This book will be useful to those students who intend to start research in graph theory combinatorics or their applications and for those researchers who feel that combinatorial techniques mightelp them

with their work in other branches of mathematics computer science management science electrical engineering and so on For background only the elements of linear algebra group theory probability and calculus are needed   *Combinatorics Problems and Solutions* Stefan Hollos,J. Richard Hollos,2013-02-14 Introduction Problems Exercises   **The Discrete Math Workbook** Sergei Kurgalin,Sergei Borzunov,2020-08-12 This practically focused study guide introduces the fundamentals of discrete mathematics through an extensive set of classroom tested problems Each chapter presents a concise introduction to the relevant theory followed by a detailed account of common challenges and methods for overcoming these The reader is then encouraged to practice solving such problems for themselves by tackling a varied selection of questions and assignments of different levels of complexity This updated second edition now covers the design and analysis of algorithms using Python and features more than 50 new problems complete with solutions Topics and features provides a substantial collection of problems and examples of varying levels of difficulty suitable for both laboratory practical training and self study offers detailed solutions to each problem 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 Turing machines 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 workbook is an invaluable resource for undergraduate students of computer science informatics and electronic engineering Suitable for use in a one or two semester course on discrete mathematics the text emphasizes the skills required to develop and implement an algorithm in a specific programming language   *Teaching Mathematics in Grades 6 - 12* Randall E. Groth,2012-08-10 A journey into the vibrant and intriguing world of mathematics education Teaching Mathematics in Grades 6 12 explores how research in mathematics education can inform teaching practice in grades 6 12 The author shows secondary mathematics teachers the value of being a researcher in the classroom by constantly experimenting with methods for developing students mathematical thinking and then connecting this research to practices that enhance students understanding of the material The chapters in Part I introduce secondary teachers to the field of mathematics education with cross cutting issues that apply to teaching and learning in all mathematics content areas The chapters in Part II are devoted to specific mathematics content strands and describe how students think about mathematical concepts The goal of the text is to have secondary math teachers gain a deeper understanding of the types of mathematical knowledge their students bring to grade 6 12 classrooms and how students thinking may develop in response to different teaching strategies   *Problem Solving in School Mathematics* ,1980   Instructor's Solutions Manual Bradley W. Jackson,1990   *Basic Discrete Mathematics: Logic, Set Theory, And Probability* Richard Kohar,2016-06-15 This lively introductory text exposes the student in the humanities to the world of discrete mathematics A problem solving based approach grounded in the ideas of George P lya are at the heart of this book

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