

## Discrete Math MAT226 Fall 2014

### Suggested Practice Problems with Answers for Final Exam

Discrete Mathematics and its applications, Kenneth Rosen, 7th edition

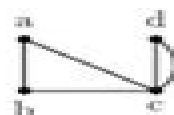
First make sure that you can do problems similar to  
the problems worked out in class, homework and WeBWork.

#### Section 8.2: Linear recurrence relations

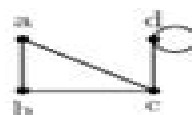
1. Determine which of the following recurrence relations are homogeneous. If it is homogeneous, find its degree.
  - (a)  $a_n = 3a_{n-2}$
  - (b)  $a_n = 3$
  - (c)  $a_n = a_{n-1}^2$
  - (d)  $a_n = a_{n-1} + 2a_{n-3}$
  - (e)  $a_n = a_{n-1}/n$
  - (f)  $a_n = a_{n-1} + a_{n-2} + n + 3$
  - (g)  $a_n = 4a_{n-2} + 5a_{n-4} + a_{n-7}$
2. Find the solution to the following recurrence relations.
  - (a)  $f_n = f_{n-1} + f_{n-2}$  with  $f_0 = 0$  and  $f_1 = 1$ . (Solved in class)
  - (b)  $a_n = 4a_{n-2}, n \geq 2$  with  $a_0 = 0$  and  $a_1 = 4$ .
  - (c)  $a_n = 4a_{n-1} - 4a_{n-2}, n \geq 2$  with  $a_0 = 6$  and  $a_1 = 8$ . (Solved in class)
  - (d)  $a_n = 2a_{n-1} + a_{n-2} - 2a_{n-3}, n \geq 3$  with  $a_0 = 3, a_1 = 6$  and  $a_2 = 0$ .  
(Solved in class)
  - (e)  $a_n = 2a_{n-1} + 5a_{n-2} - 6a_{n-3}$  with  $a_0 = 7, a_1 = -4$  and  $a_2 = 8$ .
  - (f)  $a_n = 6a_{n-1} - 12a_{n-2} + 8a_{n-3}, n \geq 2$  with  $a_0 = -5, a_1 = 4$  and  $a_2 = 88$ .  
(Solved in class)

#### Section 10.1: Graphs

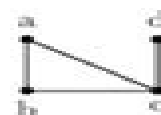
1. Determine whether the following graphs are undirected simple, multigraph.



G



H



K

2. Draw the intersection (simple) graph of with the vertex set  $\{A_1, A_2, \dots, A_6\}$  where there is an edge between  $A_i$  and  $a_j$  iff  $A_i \cap A_j \neq \emptyset$ .  
 $A_1 = \{x \mid x < 0\}, A_2 = \{x \mid -1 < x < 0\}, A_3 = \{x \mid 0 < x < 1\}, A_4 = \{x \mid -1 < x < 1\}, A_5 = \{x \mid x > -1\}, A_6 = \mathbb{R}$ .

# Discrete Math Final Exam Answers

**Joseph G. Rosenstein**



## **Discrete Math Final Exam Answers:**

**Journey into Discrete Mathematics** Owen D. Byer, Deirdre L. Smeltzer, Kenneth L. Wantz, 2018-11-13 Journey into Discrete Mathematics is designed for use in a first course in mathematical abstraction for early career undergraduate mathematics majors The important ideas of discrete mathematics are included logic sets proof writing relations counting number theory and graph theory in a manner that promotes development of a mathematical mindset and prepares students for further study While the treatment is designed to prepare the student reader for the mathematics major the book remains attractive and appealing to students of computer science and other problem solving disciplines The exposition is exquisite and engaging and features detailed descriptions of the thought processes that one might follow to attack the problems of mathematics The problems are appealing and vary widely in depth and difficulty Careful design of the book helps the student reader learn to think like a mathematician through the exposition and the problems provided Several of the core topics including counting number theory and graph theory are visited twice once in an introductory manner and then again in a later chapter with more advanced concepts and with a deeper perspective Owen D Byer and Deirdre L Smeltzer are both Professors of Mathematics at Eastern Mennonite University Kenneth L Wantz is Professor of Mathematics at Regent University Collectively the authors have specialized expertise and research publications ranging widely over discrete mathematics and have over fifty semesters of combined experience in teaching this subject

**Resources for Preparing Middle School Mathematics Teachers** Cheryl Beaver, Laurie J. Burton, Maria Gueorguieva Gargova Fung, Klay Kruczek, 2013 Cheryl Beaver Laurie Burton Maria Fung Klay Kruczek editors Cover [Discrete Mathematics in the Schools](#) Joseph G. Rosenstein, This book provides teachers of all levels with a great deal of valuable material to help them introduce discrete mathematics into their classrooms *Discourses on Business Education at the College Level* Sabra E. Brock, Peter J. McAliney, 2019-09-24 Drawing from doctoral level research on how best to teach business education to college students *Discourses on Business Education at the College Level* illustrates new and proven ideas for engaging students Sixteen authors from New York University's Steinhardt School of Culture Education and Human Development describe their experiences in upgrading and expanding the quality of the business education experience Business school instructors can use this edited collection to draw inspiration and learn specific techniques to bring their courses to the cutting edge of curriculum Topics range from teaching accounting financial literacy marketing and teamwork to gamification improving international student and intern experience not for credit education and virtual workplace learning

**Modern Mathematics Education for Engineering Curricula in Europe** Seppo Pohjolainen, Tuomas Myllykoski, Christian Mercat, Sergey Sosnovsky, 2018-07-16 This open access book provides a comprehensive overview of the core subjects comprising mathematical curricula for engineering studies in five European countries and identifies differences between two strong traditions of teaching mathematics to engineers The collective work of experts from a dozen universities critically

examines various aspects of higher mathematical education The two EU Tempus IV projects MetaMath and MathGeAr investigate the current methodologies of mathematics education for technical and engineering disciplines The projects aim to improve the existing mathematics curricula in Russian Georgian and Armenian universities by introducing modern technology enhanced learning TEL methods and tools as well as by shifting the focus of engineering mathematics education from a purely theoretical tradition to a more applied paradigm MetaMath and MathGeAr have brought together mathematics educators TEL specialists and experts in education quality assurance from 21 organizations across six countries The results of a comprehensive comparative analysis of the entire spectrum of mathematics courses in the EU Russia Georgia and Armenia has been conducted have allowed the consortium to pinpoint and introduce several modifications to their curricula while preserving the generally strong state of university mathematics education in these countries The book presents the methodology procedure and results of this analysis This book is a valuable resource for teachers especially those teaching mathematics and curriculum planners for engineers as well as for a general audience interested in scientific and technical higher education

**Cracking the Praxis Tests (Core Academic Skills + Subject Assessments + PLT Exams), 3rd Edition** The Princeton Review, 2018-10-09 THE REVIEW YOU NEED FOR THE PRAXIS SCORE YOU WANT Complete with 6 practice tests Cracking the Praxis brings you focused content review practice questions and drills and free online content to help you master the Praxis Core key Subject Assessments and the Principles of Learning and Teaching PLT tests Practice Your Way to Excellence 6 Praxis Core practice tests to help you prepare for every section of the exam 2 each for Reading Writing and Math Targeted content review for the most critical exams including the Core Academic Skills for Educators tests top Subject Assessments and the Principles of Learning and Teaching PLT tests Step by step approaches to the types of questions you ll see on test day Work Smarter Not Harder In depth answer explanations to identify and learn from your mistakes Fundamental strategies for solving common Praxis test problems Realistic practice questions and essential information to deepen your Praxis mastery Take Control of Your Prep Up to date information on the what when where and how of the Praxis tests Bonus study materials online including a chapter on Elementary Education expanded math solutions and PLT practice quizzes Planning and organization tips to prepare you for test day

*Directory of Distance Learning Opportunities* Modoc Press, Inc., 2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading

information library services and accreditation

**Teaching Formal Methods** Jeremy Gibbons, Jose Nuno

Oliveira, 2009-10-26 This book constitutes the refereed proceedings of the TFM 2009 held in Eindhoven The Netherlands in November 2009 The 10 revised full papers presented together with an abstracts of invited talk were carefully reviewed and selected from 19 submissions The papers presented explore the experiences of teaching FMs both successful and unsuccessful educational resources including the use of books case studies and the internet the education of weak and mathphobic students the integration or otherwise of FMs into the curriculum including contributions to the definition of a Formal Methods Body of Knowledge FMBOK the advantages of FM trained graduates in the workplace changing attitudes towards FMs in students academic staff and practitioners and the necessary mathematical background **Discrete**

**Mathematics with Graph Theory** Edgar G. Goodaire, Michael M. Parmenter, 1998 Adopting a user friendly conversational and at times humorous style these authors make the principles and practices of discrete mathematics as much fun as possible while presenting comprehensive rigorous coverage Starts with a chapter Yes There Are Proofs and emphasizes how to do proofs throughout the text *Math Horizons*, 1993 **The Essentials of Finite and Discrete Math** Research and

Education Association, 1987 Blind Ambition: How to Envision Your Limitless Potential and Achieve the Success You Want

Patricia Walsh, 2014-11-14 A goal setting guide to top achievement from an award winning engineer champion paratriathlete and IRONMAN world record holder Diagnosed with a pediatric brain tumor Patricia Walsh became blind at the age of five As a teenager she lost what little vision remained due to surgical complications and the straight A student began a downward spiral into depression and hopelessness But Walsh eventually had an epiphany if she didn't do something and fast she would doom herself to a life devoid of meaning Today Walsh is an award winning computer engineer and champion paratriathlete She has raced in more than a dozen marathons and ultra marathons and competed in two IRONMAN triathlons In 2011 she set the world record for blind triathletes shattering both male and female records by over 50 minutes How did she do it Patricia Walsh refused to be defined by any limits In Blind Ambition Walsh both inspires and educates by relating her unforgettable personal story while detailing her proven Fuel Fire Blaze approach to achieving any goal Fuel Set your base goals those small day to day tasks designed to collectively build toward your final goal Fire Map important milestones on your journey to keep yourself on track and motivated Blaze Your highest goals your most burning desire made real this is what happens when you add fuel to fire Drawing on her experience of great adversity and even greater success she shows you how to set realistic milestones and describes a simple and effective process for mapping these milestones to daily tasks that will help you achieve what you previously thought unachievable Every path has obstacles but you can overcome them Apply a champion's hard earned lessons to achieve your goals and live a personally enriching and professionally rewarding life All it takes is Blind Ambition Go for the Gold A Proven Model for Success from a World Class Athlete Patricia Walsh lays out an extremely effective framework for achieving your highest goals in business and in life I have personally seen Patricia

apply this approach to great success at Microsoft Anyone who reads this book will be that much closer to achieving their goals Steven Sinofsky former president of the Windows division at Microsoft Corporation In a book filled with practical actionable advice for true goal setting framed by her experience with the toughest of real world challenges Patricia Walsh provides a no nonsense framework for actualizing your goals and becoming resilient Whether you are looking to excel in business in sports or in life Blind Ambition will serve as your go to guidebook for achieving breakthroughs managing challenges and fulfilling your own marvelous potential Meg Hare president of the board of Austin Women in Technology Whether it is running your first 5K competing in an IRONMAN or completing an important work project the steps and lessons shared in this book will help you get there Patricia Walsh is an expert in overcoming challenges that stand in the way of reaching one s goal This is an outstanding read Barry Siff president of USA Triathlon and 10 time IRONMAN competitor Patricia Walsh is a beacon an inspiration and a reminder of what is achievable Blind Ambition is a must read for those who want to maximize their amazing untapped potential by applying the lessons concepts and can do attitude that Patricia embodies and shares so eloquently in this book Highly recommended Paul M Craig cofounder and president of Rudy Project North America and XX2i Optics     Discrete Mathematics with Applications Susanna S. Epp,2004 Susanna Epp s DISCRETE MATHEMATICS THIRD EDITION provides a clear introduction to discrete mathematics Renowned for her lucid accessible prose Epp explains complex abstract concepts with clarity and precision This book 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 the science and technology of the computer age Overall Epp s emphasis on reasoning provides students with a strong foundation for computer science and upper level mathematics courses     Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society,2004     **Journal of Information Warfare** ,2003     Mathematics and Computer Education ,1987     **College Chemistry** Harold Goldwhite,John R. Spielman,1984 An outline of the basic concepts of chemistry includes discussions of scientific notation atomic structure chemical bonding and the periodic table     **Curriculum Review** ,1985     **MAA Notes** ,1983     *Business Math* G. C. Alvey,R. Robert Rosenberg,G C Alvey,1983-11

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