

1. (5 points) Set up the linear programming problem for the following word problem, but DO NOT SOLVE IT. You need to buy some filing cabinets. You know that Cabinet X costs \$10 per unit, requires 6 square feet of floor space, and holds 8 cubic feet of files. Cabinet Y costs \$20 per unit, requires 8 square feet of floor space, and holds 12 cubic feet of files. You have been given \$140 for this purchase, though you don't have to spend that much. The office has room for no more than 72 square feet of cabinets. How many of each model should you buy in order to maximize storage volume?
2. (10 points) Solve the following linear programming using the Simplex Method. Find the maximum of $f = 7x + 5y$ subject to

$$\begin{cases} 2x + y \leq 100 \\ 4x + 3y \leq 240 \\ x \geq 0, y \geq 0 \end{cases}$$

Linear Programming Word Problems With Solutions

SJ Ball



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Combinatorics Theodore G. Faticoni, 2014-08-21 Bridges combinatorics and probability and uniquely includes detailed formulas and proofs to promote mathematical thinking Combinatorics An Introduction introduces readers to counting combinatorics offers examples that feature unique approaches and ideas and presents case by case methods for solving problems Detailing how combinatorial problems arise in many areas of pure mathematics most notably in algebra probability theory topology and geometry this book provides discussion on logic and paradoxes sets and set notations power sets and their cardinality Venn diagrams the multiplication principal and permutations combinations and problems combining the multiplication principal Additional features of this enlightening introduction include Worked examples proofs and exercises in every chapter Detailed explanations of formulas to promote fundamental understanding Promotion of mathematical thinking by examining presented ideas and seeing proofs before reaching conclusions Elementary applications that do not advance beyond the use of Venn diagrams the inclusion exclusion formula the multiplication principal permutations and combinations Combinatorics An Introduction is an excellent book for discrete and finite mathematics courses at the upper undergraduate level This book is also ideal for readers who wish to better understand the various applications of elementary combinatorics

NBS Special Publication ,1968

Integration of Constraint Programming, Artificial Intelligence, and

Operations Research Andre A. Cire, 2023-05-22 This book constitutes the proceedings of the 20th International Conference on the Integration of Constraint Programming Artificial Intelligence and Operations Research CPAIOR 2022 held in Nice France during May 29 June 1 2023 The 26 full papers and the 6 short papers presented in this book were carefully reviewed and selected from a total of 71 submissions The content of the papers present new techniques or new applications and provide an opportunity for researchers in one area to learn about techniques in the others Besides they give researchers the opportunity to show how the integration of techniques from different fields can lead to interesting results on large and complex problems

Computer Literature Bibliography: 1964-1967 W. W. Youden, 1965

Introduction to Linear Programming Leonid Nison Vaserstein, 2003 For a one semester course in Linear Programming for upper level students with varying mathematical backgrounds Written to include three different mathematical levels this text strikes the necessary balance for a class consisting of students with varying mathematical backgrounds It covers the basics of Linear Programs and also includes an appendix that develops many advanced topics in mathematical programming for students who plan to go on to graduate level study in this field Many exercises of varying difficulty provide introductory students the opportunity to progress through the material at a steady pace while advanced students can proceed to the more challenging material

Intelligent Computer Mathematics Catherine Dubois, Manfred Kerber, 2023-08-30 This book constitutes the refereed proceedings of the 16th International Conference on Intelligent Computer Mathematics CICM 2023 held in Cambridge UK in September 2023 The 14 full papers 2 project survey papers 6 short papers and 1 tool paper presented were carefully

reviewed and selected from a total of 37 submissions The papers focus on advances in formalization automatic theorem proving and learning search and classification teaching and geometric reasoning and logic and systems among other topics

Scientific and Technical Aerospace Reports ,1968 Production and Operations Management K.C. Arora,2004
Mathematics Earl K. Bowen,1967 **Understanding Finite Mathematics** James Radlow,1982 **Mathematics for Students of Business, Economics, and Social Science** James Radlow,1979 **Mathematics; with Applications in Management and Economics** Earl K. Bowen,1972 *Mathematics and Computing: with FORTRAN Programming* William S. Dorn,1967 The Science of Decision Making Eric V. Denardo,2002 Provides the reader with a perspective on the efficient operation of complicated systems Spreadsheets are used to employ and teach techniques Includes the facets of probability that relate to decision making The American Mathematical Monthly ,1981 Includes articles as well as notes and other features about mathematics and the profession **The Cooperative Extension Service Updated Inventory of Computer Programs** J. Robert Strain,1984 **AAAS Science Book List, 1978-1986** Kathryn Wolff,Susan M. O'Connell,Valerie J. Montenegro,1986 A selected and annotated list of science and mathematics books which supplements the AAAS science book list 3rd ed 1970 and the AAAS science book list supplement 1978 Intermediate Algebra with Applications and Visualization Gary K. Rockswold,Terry A. Krieger,2009 KEY MESSAGE Gary Rockswold and Terry Kriegerfocus on teaching algebra in context giving readers realistic and convincing answers to the perennial question When will I ever use this The authors consistent use of real data graphs and tables throughout the examples and exercise sets gives meaning to the numbers and equations as readers encounter them This new edition further enhances Rockswold and Krieger s focus on math in the real world with new features and updated applications to engage today s readers KEY TOPICS Real Numbers and Algebra Linear Functions and Models Linear Equations and Inequalities Systems of Linear Equations Polynomial Expressions and Functions Rational Expressions and Functions Radical Expressions and Functions Quadratic Functions and Equations Exponential and Logarithmic Functions Conic Sections Sequences and Series MARKET For all readers interested in algebra *Proceedings* ,1955 *Bibliography of Scientific and Industrial Reports* ,1965-07

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