

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

Lei Shi



Linear Programming Word Problems With Solutions:

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

Computer Literature Bibliography: 1964-1967 W. W. Youden, 1965 *NBS Special Publication*, 1968 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 **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

Schaum's Outline of Operations Research Richard Bronson, Govindasami Naadimuthu, 1997-07-22 Confusing Textbooks Missed Lectures Not Enough Time Fortunately for you there s Schaum s Outlines More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum s Outline gives you

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Encyclopaedia of Mathematics Michiel Hazewinkel,1997-08-31 This is the first Supplementary volume to Kluwer s highly acclaimed Encyclopaedia of Mathematics This additional volume contains nearly 600 new entries written by experts and covers developments and topics not included in the already published 10 volume set These entries have been arranged alphabetically throughout A detailed index is included in the book This Supplementary volume enhances the existing 10 volume set Together these eleven volumes represent the most authoritative comprehensive up to date Encyclopaedia of Mathematics available

Production and Operations Management K.C. Arora,2004

Scientific and Technical Aerospace Reports ,1968

The American Mathematical Monthly ,1981 Includes articles as well as notes and other features about mathematics and the profession

Mathematics Earl K. Bowen,1967

Mathematics for Students of Business, Economics, and Social Science James Radlow,1979

Mathematics; with Applications in Management and Economics Earl K. Bowen,1972

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Proceedings American Institute for Decision Sciences. Meeting,1973

Fundamental Mathematics for the Management and Social Sciences Lloyd S. Emerson,Laurence R. Paquette,1981

Proceedings ,1954

Proceedings of the ... Annual National Time and Motion Study and Management Clinic ,1949

Calculus with Finite Mathematics Geoffrey C. Berresford,1999

Government-wide Index to Federal Research & Development Reports ,1968

Decoding **Linear Programming Word Problems With Solutions**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Linear Programming Word Problems With Solutions**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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