

# LPP using Graphical Method

Question: Solve the LPP by Graphical Method

Minimize  $Z = 20x_1 + 10x_2$

Subject to,  $x_1 + 2x_2 \leq 40$

$3x_1 + x_2 \geq 30$

$9x_1 + 3x_2 \geq 60$

$x_1, x_2 \geq 0$

Solution: Replace all the inequality constraints by Equation,

$x_1 + 2x_2 = 40$ ----- i	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <math>x_1 = 0, x_2 = 20 \ (0, 20)</math>  <math>x_2 = 0, x_1 = 40 \ (40, 0)</math> </div>
$3x_1 + x_2 = 30$ ----- ii	
$9x_1 + 3x_2 = 60$ ----- iii	

Equation of Straight line  
 $\frac{x}{a} + \frac{y}{b} = 1$

**Unique  
Optimal  
Solution**

Dividing equation-iii by 60 we get,

$$\frac{x_1}{15} + \frac{x_2}{20} = 1$$

Rough

Point C

Solve Equation i, ii

$$x_1 = 6$$

**Operations  
Research  
Lecture - 1**



- A (15, 15)
- B (40, 0)
- C (6, 12)
- D (0, 20)

Solve Equation ii, iii

$$3x_1 + x_2 = 30$$

$$9x_1 + 3x_2 = 60$$

$$3x_2 = 30$$

$$x_2 = 10$$

$$x_1 = 30 - 3 \times 10 = 0$$

# Operations Research Using The Graphical Method To Solve

**Guillaume Favre**



## **Operations Research Using The Graphical Method To Solve:**

**Operations Research** Col. D. S. Cheema, 2005 The Graphical Method for Finding the Optimal Solution for Neutrosophic linear Models and Taking Advantage of Non-Negativity Constraints to Find the Optimal Solution for Some Neutrosophic linear Models in Which the Number of Unknowns is More than Three Maissam Jdid ,Florentin Smarandache, 2023-01-01 The linear programming method is one of the important methods of operations research that has been used to address many practical issues and provided optimal solutions for many institutions and companies which helped decision makers make ideal decisions through which companies and institutions achieved maximum profit but these solutions remain ideal and appropriate in If the conditions surrounding the work environment are stable because any change in the data provided will affect the optimal solution and to avoid losses and achieve maximum profit we have in previous research reformulated the linear models using the concepts of neutrosophic science the science that takes into account the instability of conditions and fluctuations in the work environment and leaves nothing to chance While taking data neutrosophic values carry some indeterminacy giving a margin of freedom to decision makers In another research we reformulated one of the most important methods used to solve linear models which is the simplex method using the concepts of this science and as a continuation of what we did in the previous two researches we will reformulate in this research The graphical method for solving linear models using the concepts of neutrosophics We will also shed light on a case that is rarely mentioned in most operations research references which is that when the difference between the number of unknowns and the number of constraints is equal to one two or three we can also find the optimal solution graphically for some linear models This is done by taking advantage of the conditions of non negativity that linear models have and we will explain this through an example in which the difference is equal to two Also through examples we will explain the difference between using classical values and neutrosophic values and the extent of this s impact on the optimal solution Second Edition Industrial Mathematics-I (Part of Operation Research) - Linear Programming Problem Dr. Dharamender Singh, Dr. Hemant Kumar, Dr. Pujari Thakur Singh, Mr. Balwinder Singh Kuntal, Dr. Kripal Singh, 2025-09-28 Second Edition Industrial Mathematics I Linear Programming Problem is a comprehensive textbook on Operations Research focusing on linear programming and its applications in decision making optimization and resource management It covers fundamental concepts mathematical modeling convex analysis simplex methods duality transportation and assignment problems game theory and practical applications in industry and business Enriched with solved examples exercises and updated explanations this edition is designed to support undergraduate and postgraduate students as well as aspirants preparing for competitive examinations **UGC NET Management [Code-17] Unit-Wise /Topic Wise PYQs (2012-2025) with Detailed Explanations II Management Paper -2 II Best PYQ Book for UGC NET/JRF & SET Exams II 14 year II By Diwakar Education Publication** ,2025-07-30 Description Prepare smart succeed with confidence This meticulously crafted guide is your one stop solution for

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*Operations Research for Management* G. V. Shenoy, U. K. Srivastava, S. C. Sharma, 1986

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## **Table of Contents Operations Research Using The Graphical Method To Solve**

1. Understanding the eBook Operations Research Using The Graphical Method To Solve
  - The Rise of Digital Reading Operations Research Using The Graphical Method To Solve
  - Advantages of eBooks Over Traditional Books
2. Identifying Operations Research Using The Graphical Method To Solve
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Operations Research Using The Graphical Method To Solve
  - User-Friendly Interface
4. Exploring eBook Recommendations from Operations Research Using The Graphical Method To Solve

- Personalized Recommendations
- Operations Research Using The Graphical Method To Solve User Reviews and Ratings
- Operations Research Using The Graphical Method To Solve and Bestseller Lists
- 5. Accessing Operations Research Using The Graphical Method To Solve Free and Paid eBooks
  - Operations Research Using The Graphical Method To Solve Public Domain eBooks
  - Operations Research Using The Graphical Method To Solve eBook Subscription Services
  - Operations Research Using The Graphical Method To Solve Budget-Friendly Options
- 6. Navigating Operations Research Using The Graphical Method To Solve eBook Formats
  - ePub, PDF, MOBI, and More
  - Operations Research Using The Graphical Method To Solve Compatibility with Devices
  - Operations Research Using The Graphical Method To Solve Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Operations Research Using The Graphical Method To Solve
  - Highlighting and Note-Taking Operations Research Using The Graphical Method To Solve
  - Interactive Elements Operations Research Using The Graphical Method To Solve
- 8. Staying Engaged with Operations Research Using The Graphical Method To Solve
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Operations Research Using The Graphical Method To Solve
- 9. Balancing eBooks and Physical Books Operations Research Using The Graphical Method To Solve
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Operations Research Using The Graphical Method To Solve
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Operations Research Using The Graphical Method To Solve
  - Setting Reading Goals Operations Research Using The Graphical Method To Solve
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Operations Research Using The Graphical Method To Solve

- Fact-Checking eBook Content of Operations Research Using The Graphical Method To Solve
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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