

LPP using Graphical Method

Question: Solve the LPP by Graphical Method

Minimize $Z = 20x_1 + 10x_2$

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

$3x_1 + x_2 \geq 30$

$4x_1 + 3x_2 \geq 60$

$x_1, x_2 \geq 0$

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;"> $x_1 = 0, x_2 = 20 \ (0, 20)$ $x_2 = 0, x_1 = 40 \ (40, 0)$ </div>
$3x_1 + x_2 = 30$ ----- ii	
$4x_1 + 3x_2 = 60$ ----- iii	

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

**Unique
Optimal
Solution**

Dividing equation-iii by 60 we get,

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

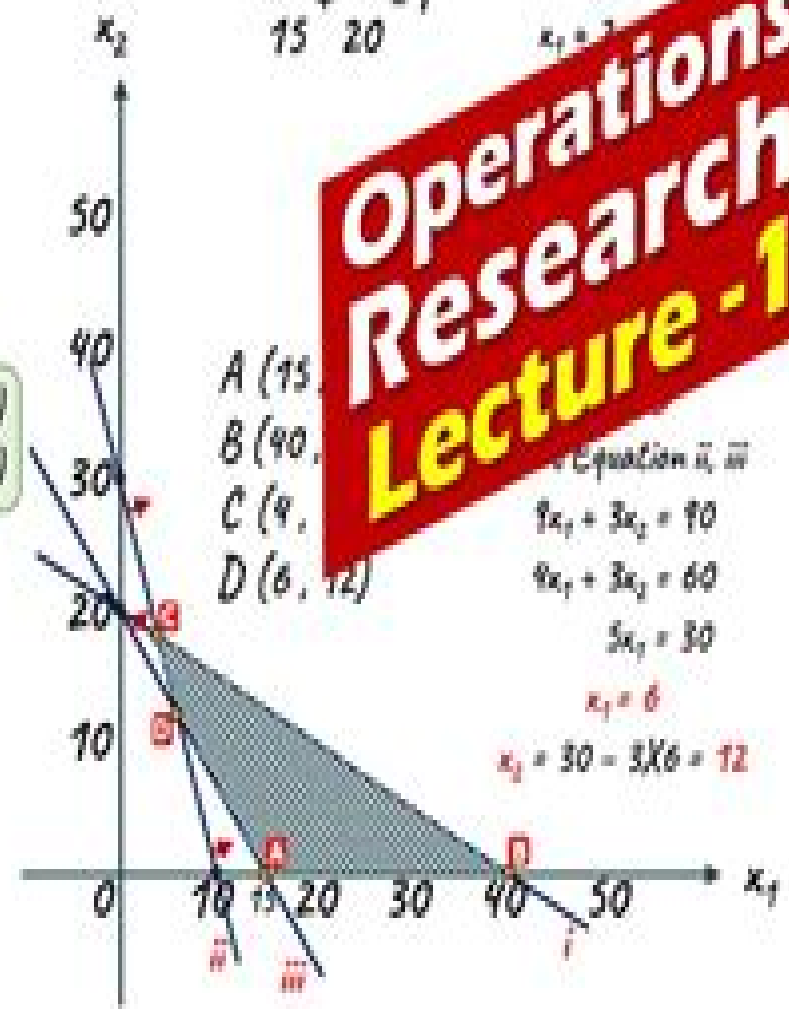
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Point C

Solve Equation i, ii

$$x_1 = 6$$

**Operations
Research
Lecture - 1**



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

Solve Equation ii, iii

$$3x_1 + 3x_2 = 30$$

$$4x_1 + 3x_2 = 60$$

$$3x_2 = 30$$

$$x_2 = 10$$

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

Operations Research Using The Graphical Method To Solve

Terry C. Jones



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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