

## *Optimal Solutions Linear Programming*

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### **Optimal Solutions Linear Programming**

Linear programming is the process of taking various linear inequalities relating to some situation, and finding the "best" value obtainable under those conditions. A typical example would be taking the limitations of materials and labor, and then determining the "best" production levels for maximal profits under those conditions.

### **Linear Programming: Introduction - Purplemath**

A linear programming problem with a bounded set always has an optimal solution. This means that a bounded set has a maximum value as well as a minimum value. Example 1: Given the objective function  $P \times y = -10 \ 3$  and the following feasible set, A. Find the maximum value and the point where the maximum occurs.

### **Section 2.1 - Solving Linear Programming Problems**

possibly ambiguous meaning of alternative optimal solutions to L.P. problems in the presence of degeneracy - a point which is glossed over by most O.R. texts. Texts often define a feasible solution as 'a set of values for the variables which satisfy all of the constraints' and an optimal solution as the 'best feasible solution'.

### **ALTERNATIVE OPTIMAL SOLUTIONS TO LINEAR PROGRAMMING ...**

At the four vertices of this region, the objective function has the following values. The objective function has its optimal value at one of the vertices of the region determined by the constraints. If a linear programming problem has a solution, it must occur at a vertex of the set of feasible solutions.

### **9.2 LINEAR PROGRAMMING INVOLVING TWO VARIABLES**

2.3 An example of infinitely many alternative optimal solutions in a linear programming problem. The level curves for  $z(x_1; x_2) = 18x_1 + 6x_2$  are parallel to one face of the polygon boundary of the feasible region. Moreover, this side contains the points of greatest value for  $z(x_1; x_2)$  inside the feasible region. Any v.

### **Linear Programming Lecture Notes**

In this video I explain what the optimal solution is and demonstrate a step by step process to find the optimal solution to a linear programming problem.

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