

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;"> $x_1 = 0, x_2 = 20 \ (0, 20)$ $x_2 = 0, x_1 = 40 \ (40, 0)$ </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, 0)
- B (40, 0)
- C (6, 12)
- D (0, 20)

Solve Equation ii & iii

$$9x_1 + 3x_2 = 90$$

$$9x_1 + 3x_2 = 60$$

$$3x_2 = 30$$

$$x_2 = 10$$

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

Operations Research Using The Graphical Method To Solve

N Noddings



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