

NCERT Solutions Class 12 Maths Chapter 12 Linear Programming

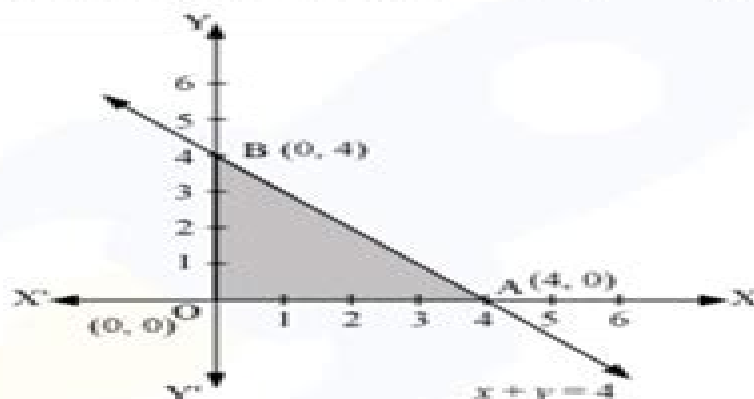
Question 1:

Maximize $Z = 3x + 4y$

Subject to the constraints: $x + y \leq 4$, $x \geq 0$, $y \geq 0$

Solution:

The feasible region determined by the constraints, $x + y \leq 4$, $x \geq 0$ and $y \geq 0$ is given by



Since, the corner points of the feasible region are $O(0,0)$, $A(4,0)$ and $B(0,4)$. The value of Z at these points are as follows:

Corner point	$Z = 3x + 4y$	
$O(0,0)$	0	
$A(4,0)$	12	
$B(0,4)$	16	$\rightarrow$ Maximum

Question 2:

Minimize $Z = -3x + 4y$

Thus, the maximum value of Z is 16 at the point $B(0,4)$.

Algebra 2 Linear Programming 4 Answers

Amol Sasane



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