

CLASS 12

MATHEMATICS

REVISION NOTES

Class 12 Mathematics Chapter 12 Linear Programming – Revision Notes

Linear Programming sets up a linear objective function subject to constraints, and this chapter explains the corner point method used to find where that function is maximised or minimised.

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Class 12 Mathematics Chapter 12 – Solutions and Important Questions

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Key Concepts

Objective function: $Z=ax+by$ (maximize/minimize).

Constraints: linear inequalities + non-negativity ($x,y\geq 0$).

Feasible region: common region satisfying all constraints.

Corner Point Method

Optimal Z occurs at a vertex of the feasible region.

Evaluate Z at each corner point; pick max/min.

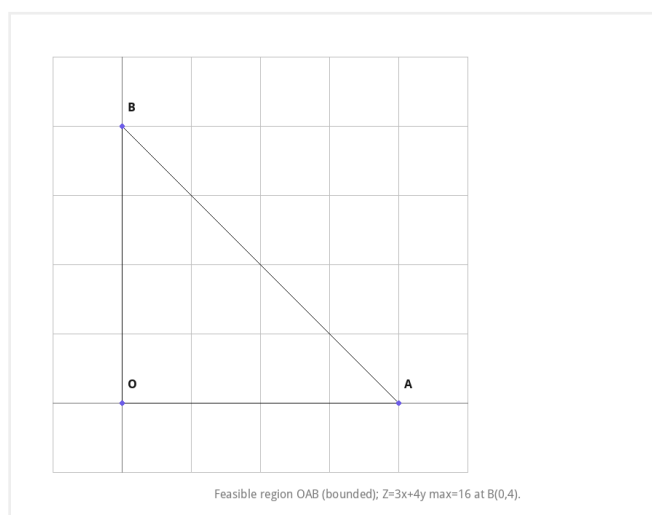
Unbounded region: check if max actually exists.

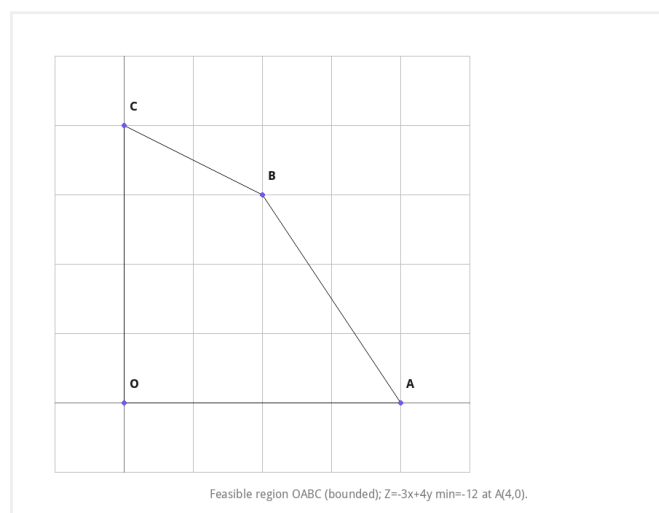
Equal Z at two adjacent corners $\Rightarrow$ entire edge is optimal (multiple solutions).

One-Line Summary

Linear Programming optimizes a linear objective function over a feasible region defined by linear constraints, with the optimum always occurring at a corner point (vertex) of the region.

Quick visual: a worked diagram from the full [Solutions](#) page, for reference.





Class 12 Mathematics Chapter 12 – Solutions and Important Questions

Need full answers or more practice? See the [Class 12 Mathematics Chapter 12 Solutions](#) and [Class 12 Mathematics Chapter 12 Extra Questions](#).

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