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Ans I INFEASIBLE Region

Wrong formulation of an LPP result into inconsistent constraints and no value of the variation of the all the constraints. In such cases the LPP is said to have no feasible solution or infeasible solution.

2. Unbounded Solution

Some LPP have unbounded feasible region so that the variable can take any value in the unbounded region without violating any constraints.

3. Multiple optimal solution

When there exist more than one points in the feasible region such that the objective function Z has the same optimal value say K then each such points correspond to an optimal solution. The LPP has multiple solution.

The following two conditions must be satisfied

- (1) the objective function must be parallel
- (2) the constraints must form a boundary of the feasible region

4. Redundancy

A constraint in a given LPP is said to be redundant if the feasible region of the problem is not affected by deleting that constraint.