

Def: Feasible region:

A region which is restricted to the first quadrant is referred to as feasible region

Def: Feasible Solution:

Each point of the feasible region is called feasible solution of the system of linear inequalities- (OR)

Any ordered pair (x, y) satisfying all the constraints is called feasible solution of system of linear inequalities and set of feasible solutions is called feasible solution set-

Def: Optimal Solution:

There are infinitely many feasible solutions in the feasible region- The feasible solution which maximizes or minimizes the objective function is called optimal solution-