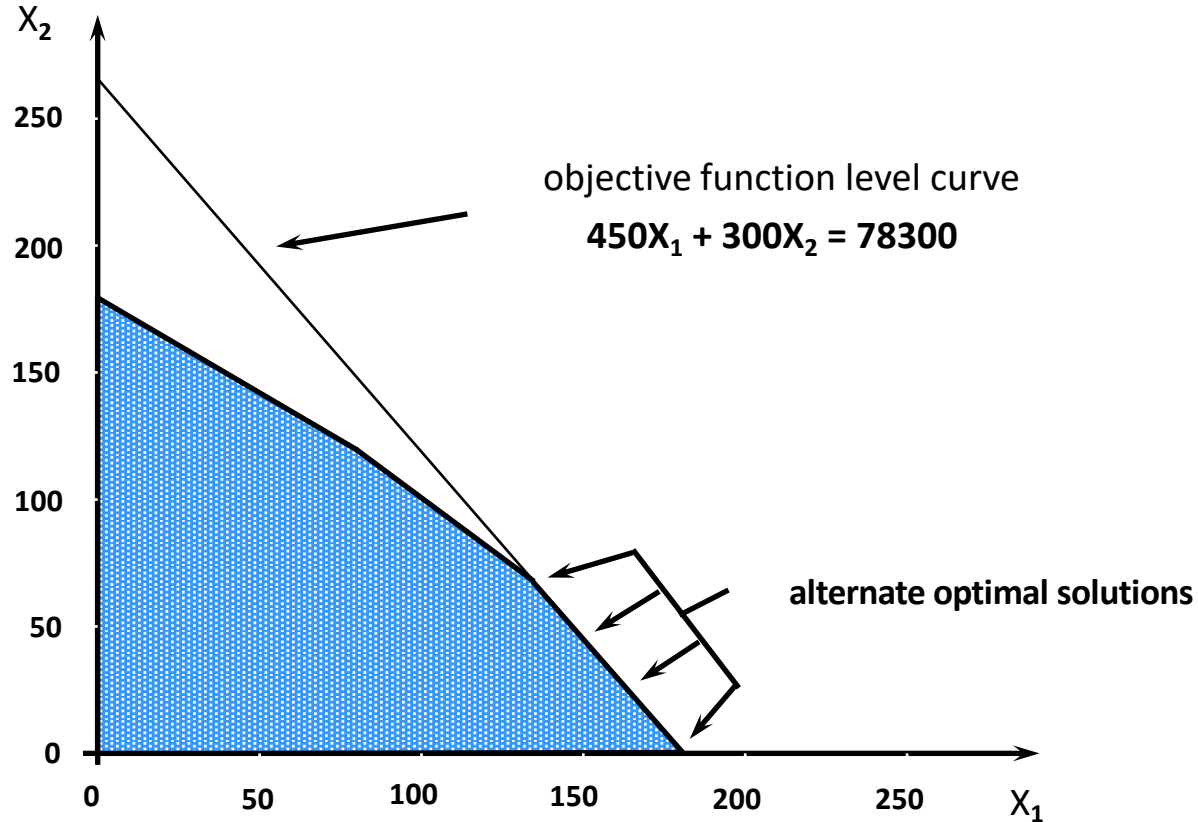# Linear Programming (LP)

Special Conditions

Special Conditions in LP Models

A number of anomalies can occur in LP problems:
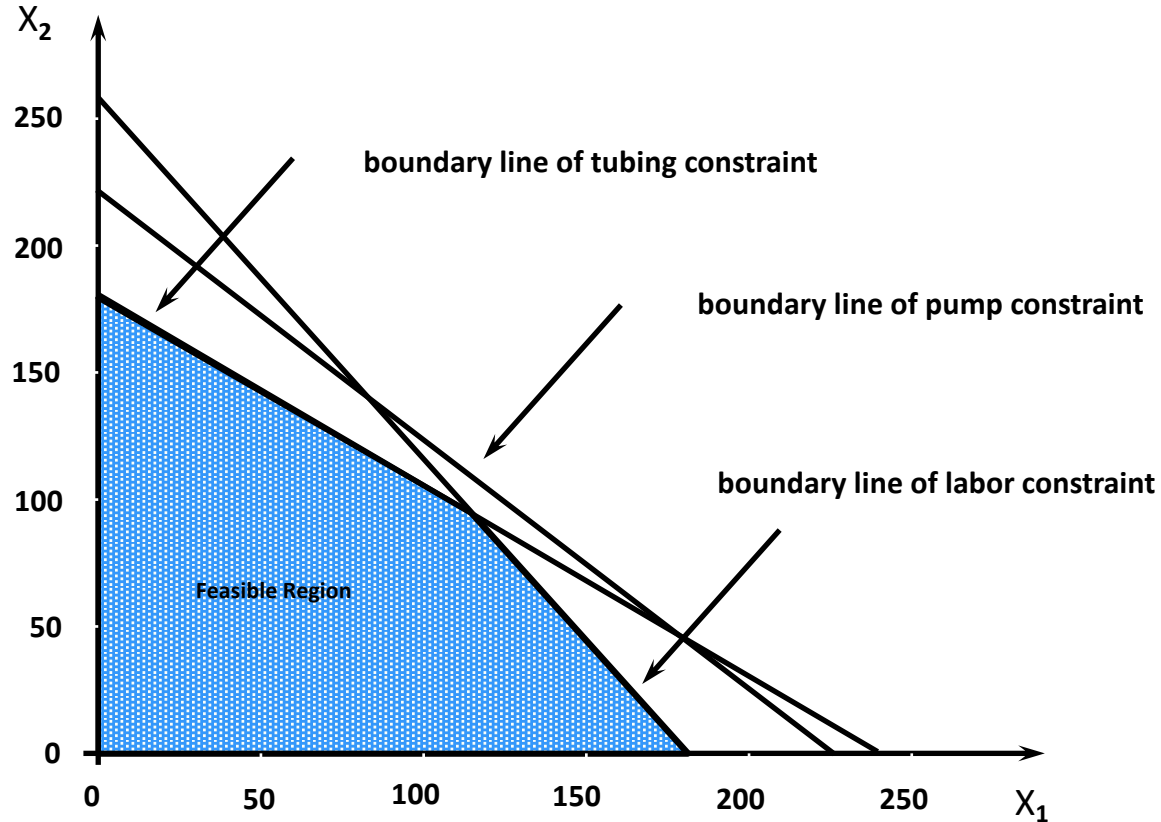
- Alternate optimal solutions

- Redundant constraints
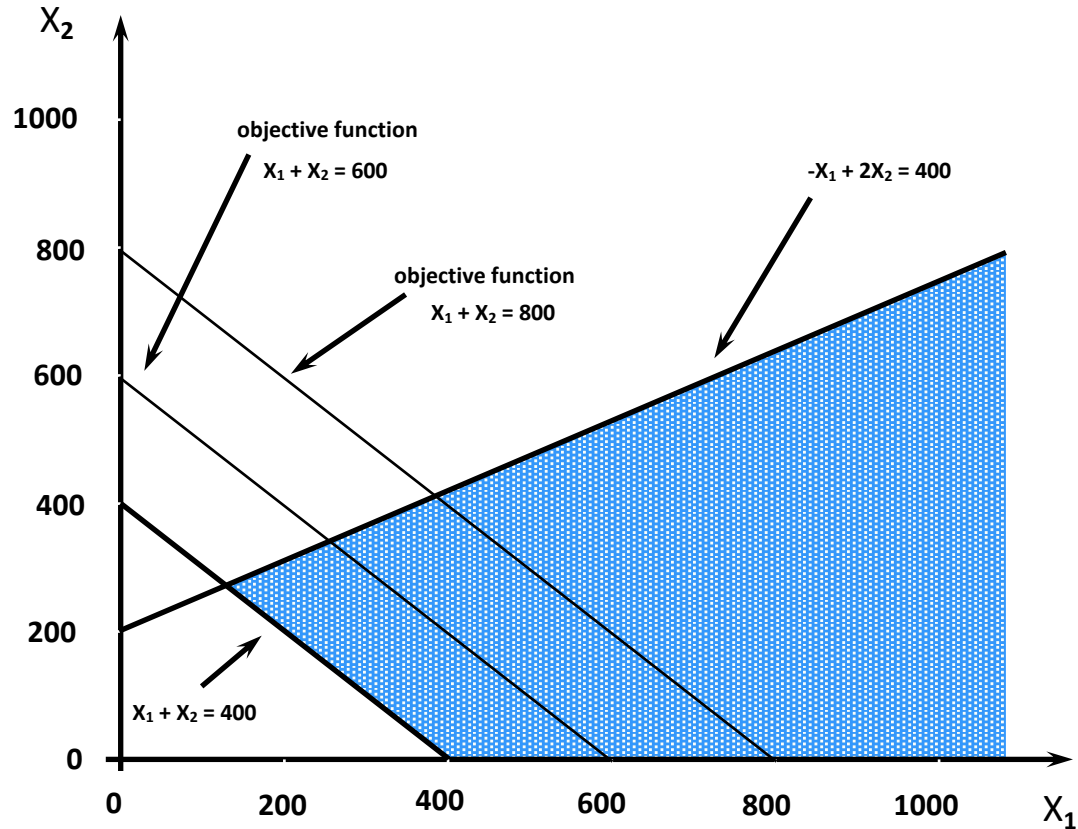
- Unbounded solutions

- Infeasibility

Example of Alternate Optimal Solutions

objective function level curve

$450X_1 + 300X_2 = 78300$

alternate optimal solutions

Example of a Redundant Constraint

Example of an Unbounded Solution

Example of Infeasibility