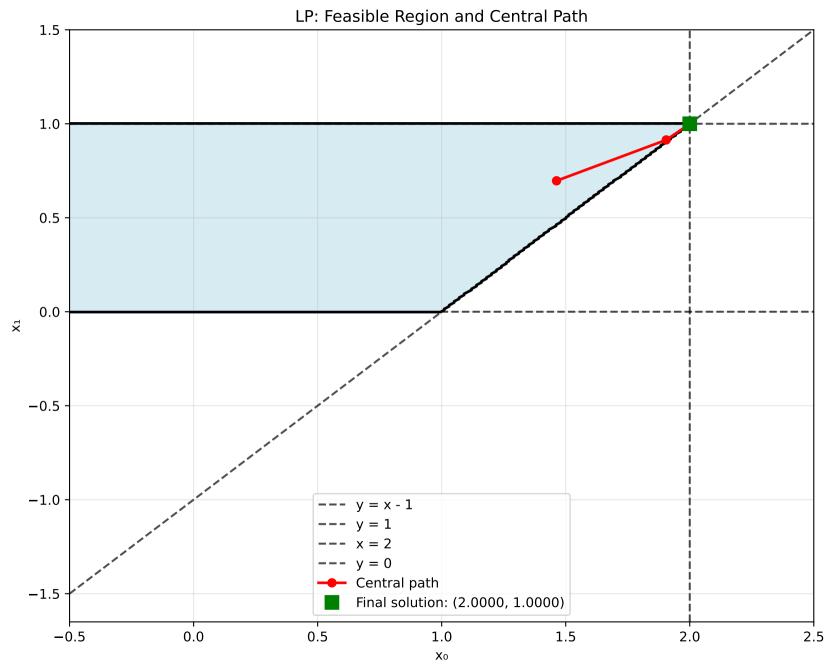
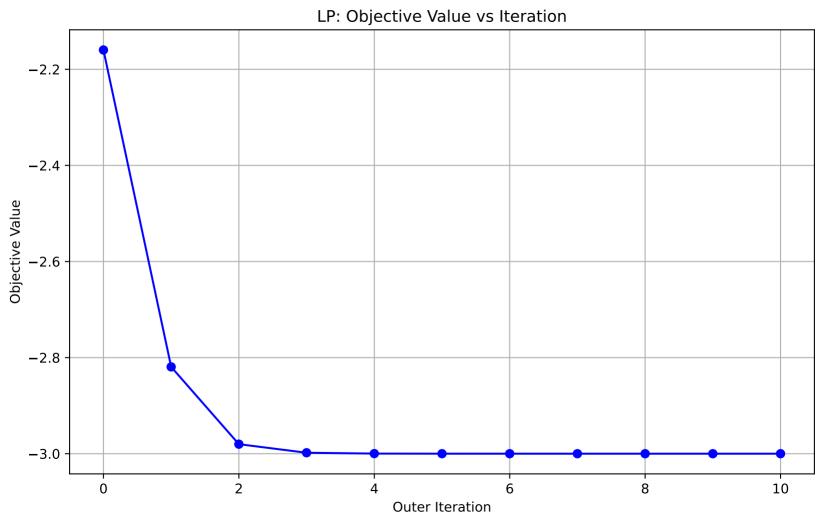
Constrained Optimization Results

Link to Github Repository:

https://github.com/queenkatherinecodes/python_hw2

Amit Parann and Katherine Berger





LINEAR PROGRAMMING RESULTS

```
LINEAR PROGRAMMING RESULTS

Final Solution:
x = [2.000000, 1.000000]

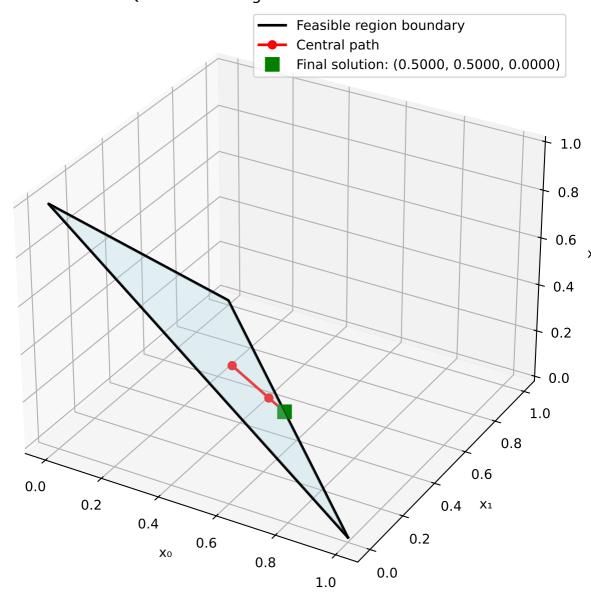
Objective Value:
f(x) = -3.000000

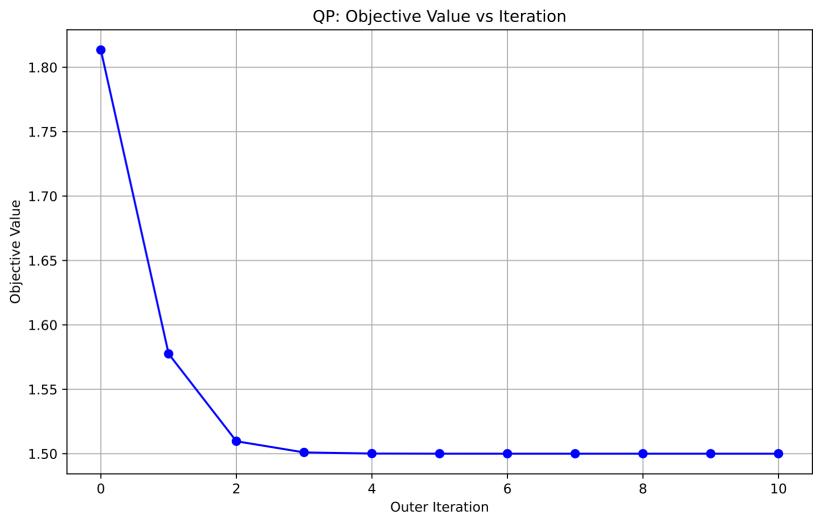
Original objective (-(x_0+x_1)): -3.000000

Constraint Values (should be \geq 0):
y - (x-1): 0.000000
1 - y: 0.000000
2 - x: 0.000000
y: 1.000000
```

Number of outer iterations: 11

QP: Feasible Region and Central Path





QUADRATIC PROGRAMMING RESULTS

```
QUADRATIC PROGRAMMING RESULTS

Final Solution:
x = [0.500000, 0.500000, 0.000000]

Objective Value:
f(x) = 1.500000

Constraint Values:
Equality constraint (x_0+x_1+x_2-1): -0.000000

Inequality constraints:
x_0 \ge 0: 0.500000
x_1 \ge 0: 0.500000
x_2 \ge 0: 0.000000
```