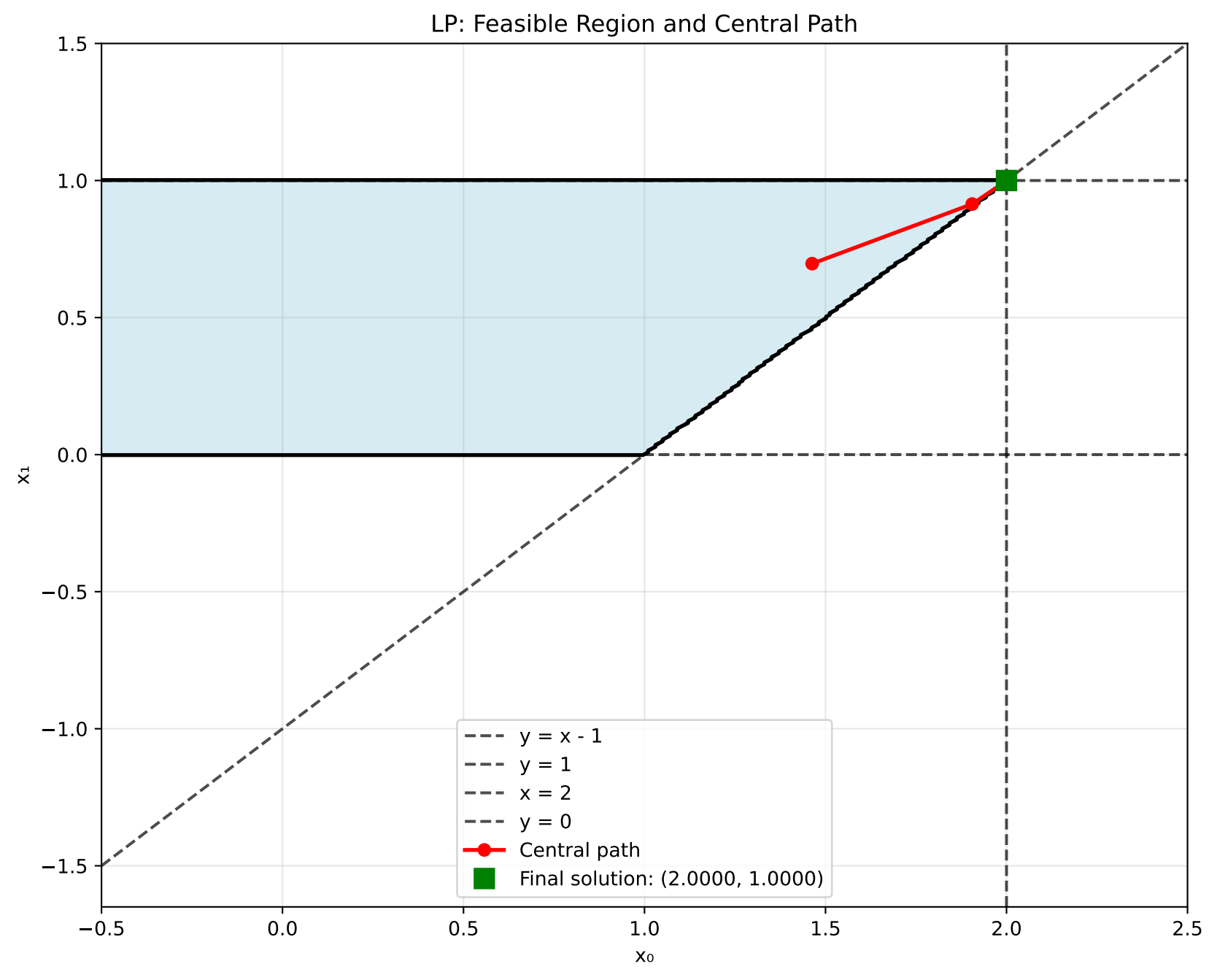
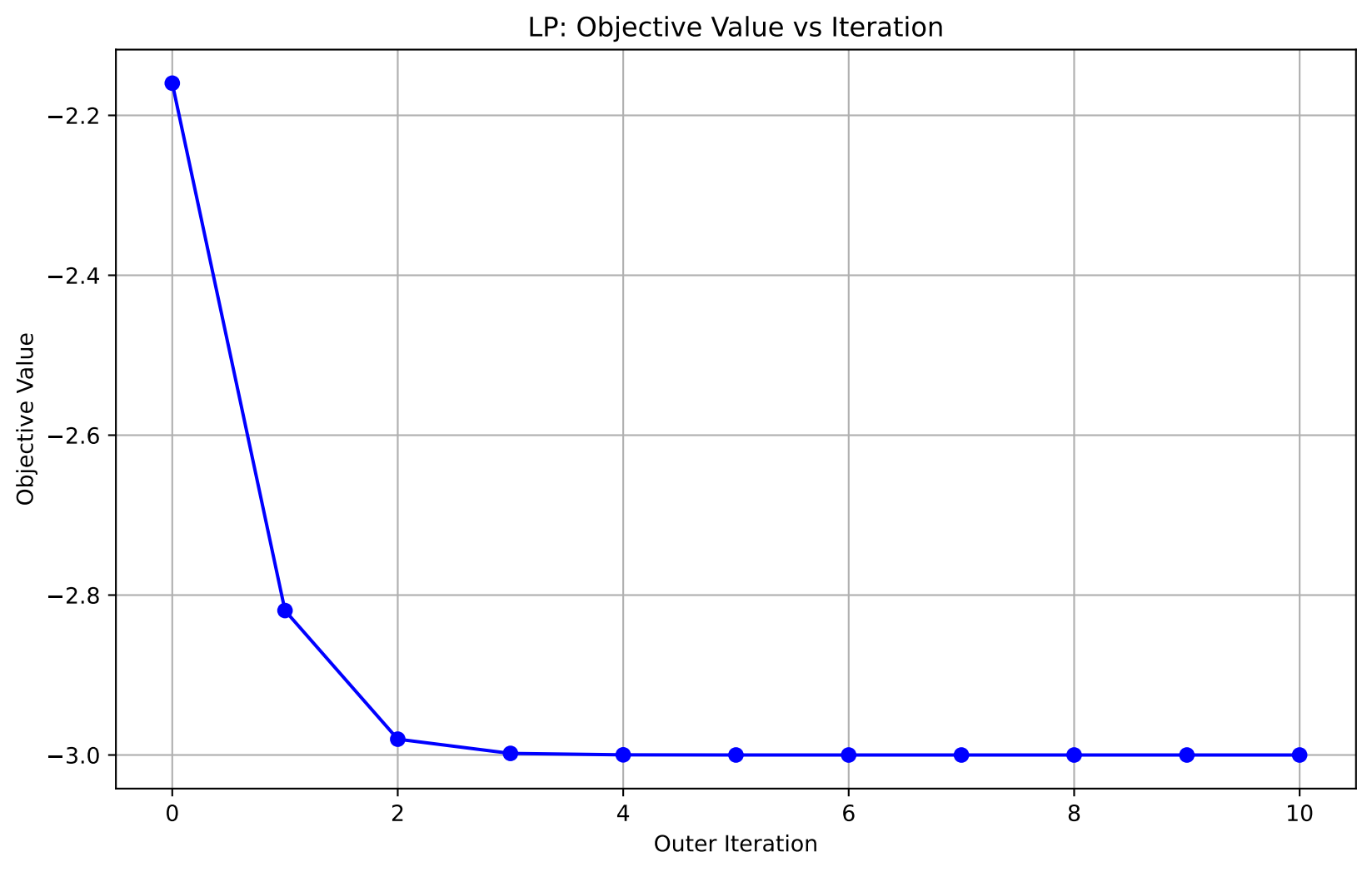

LP: Feasible Region and Central Path
1.5
1.0
0.5
0.0
−0.5
−1.0
−1.5
x₁
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
x₀
y = x - 1
y = 1
x = 2
y = 0
Central path
Final solution: (2.0000, 1.0000)


LP: Objective Value vs Iteration
Objective Value
−2.2
−2.4
−2.6
−2.8
−3.0
0
2
4
6
8
10
Outer Iteration

LINEAR PROGRAMMING RESULTS

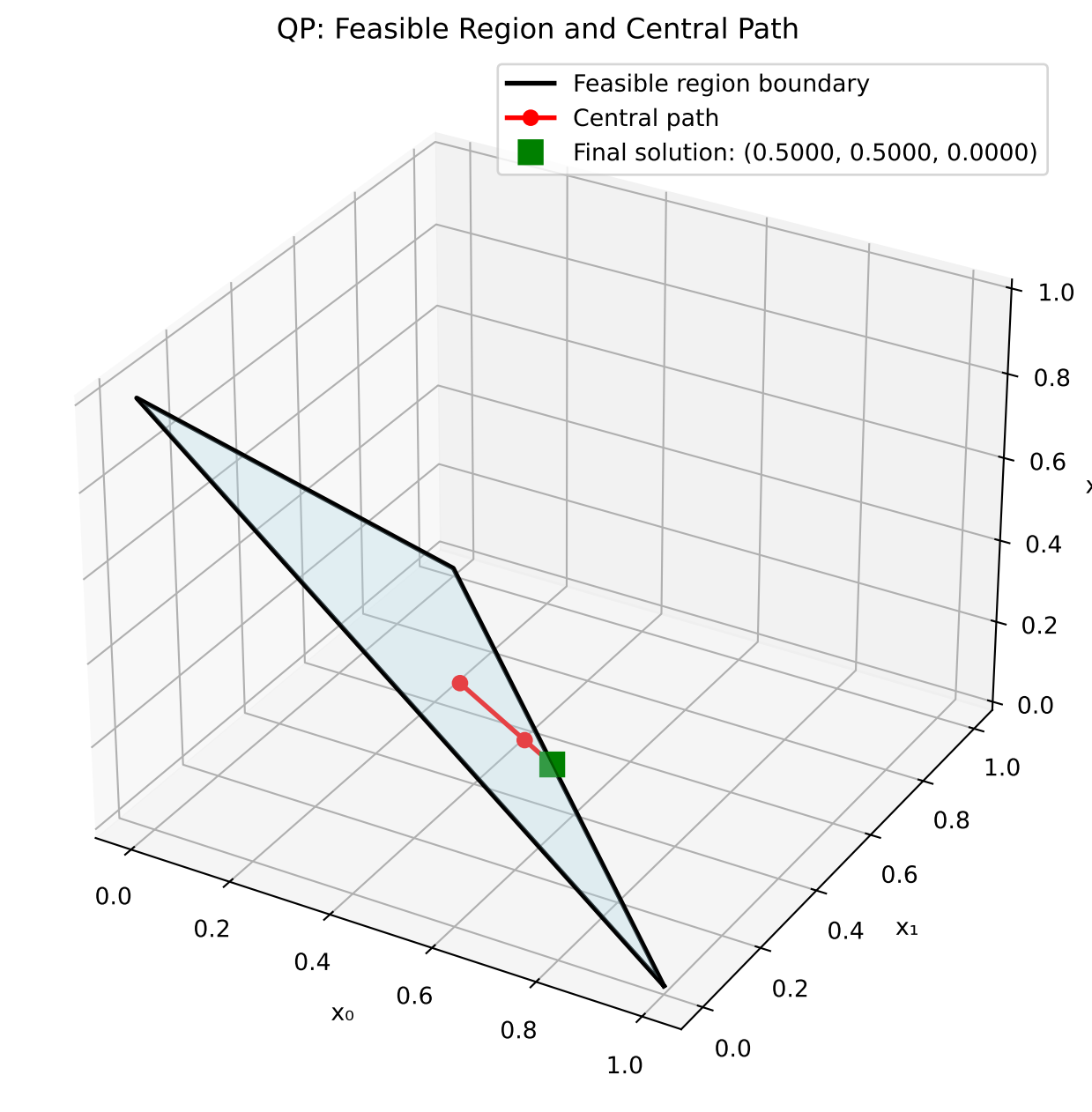
LINEAR PROGRAMMING RESULTS

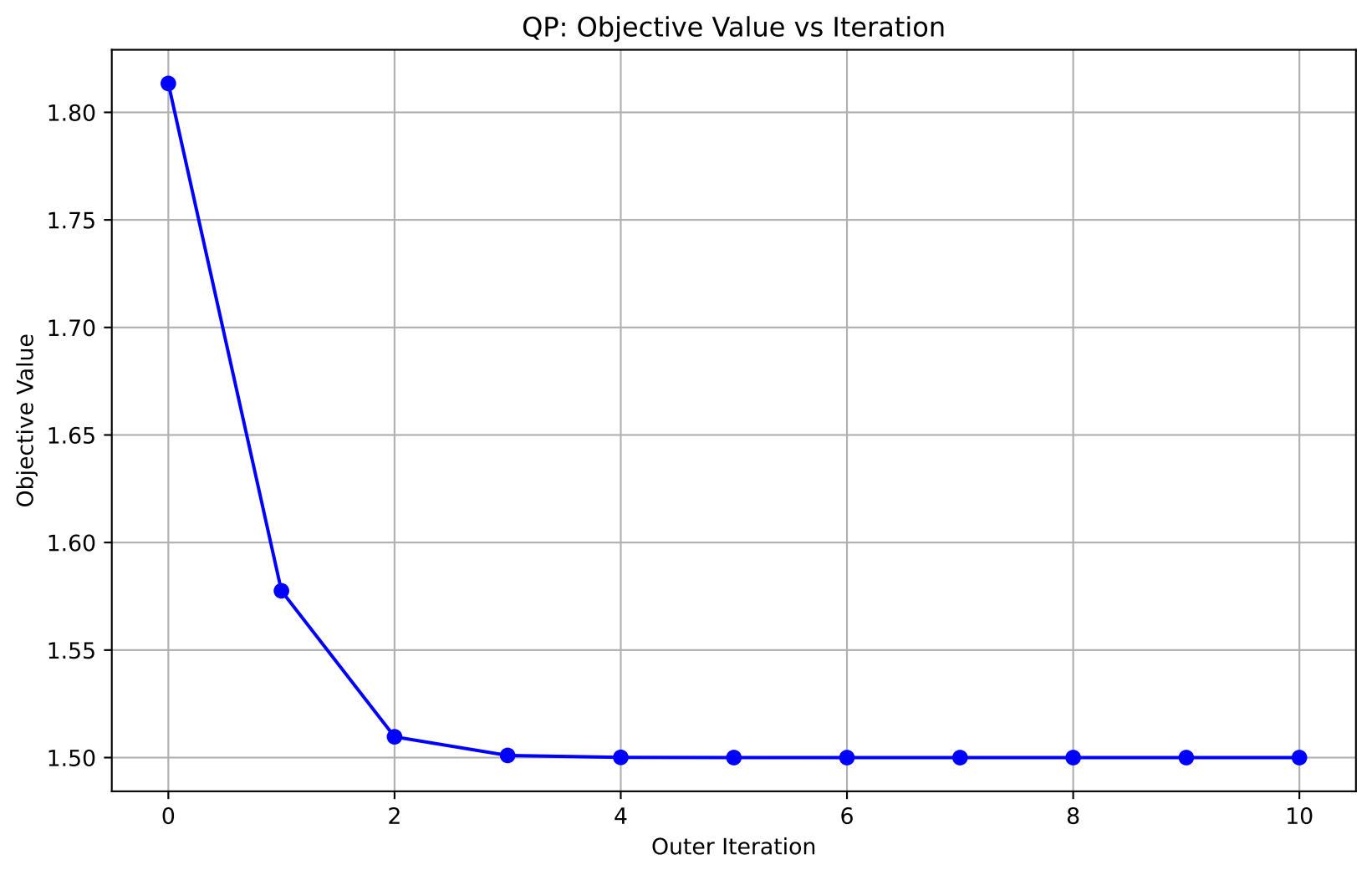
Final Solution:
x = [2.000000, 1.000000]

Objective Value:
f(x) = -3.000000
Original objective (-(x_0+x_1)): -3.000000

Constraint Values (should be ≥ 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
Feasible region boundary
Central path
Final solution: (0.5000, 0.5000, 0.0000)
x₀
x₁
0.0
0.2
0.4
0.6
0.8
1.0


QP: Objective Value vs Iteration
Objective Value
1.80
1.75
1.70
1.65
1.60
1.55
1.50
0
2
4
6
8
10
Outer Iteration

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 ≥ 0: 0.500000
  x_1 ≥ 0: 0.500000
  x_2 ≥ 0: 0.000000

Number of outer iterations: 11