1. Exercise 29.5-5 on page 893

Basic solution: \((x_1, x_2, x_3, x_4, x_5) = (\frac{34}{3}, \frac{10}{3}, 0, \frac{35}{3}, 0)\)

Objective value: \(\frac{64}{3}\)

2. Exercise 29.5-6 on page 893

The LP is infeasible.

3. Exercise 29.5-7 on page 893

The LP is unbounded.