1 Homework 8

 1 Use the ${\bf Simplex~Method}$ to find both the maximum solution and the minimum solution.

1.

$$\begin{array}{lll} \text{Optimize} & z = 2x_1 & + 3x_2 \\ \text{subject to} & 2x_1 & + 3x_2 & \geq 6 \\ & 3x_1 & - x_2 & \leq 15 \\ & -x_1 & + x_2 & \leq 4 \\ & 2x_1 & + 5x_2 & \leq 27 \\ & x_i \geq 0, \quad i = 1, 2 \end{array}$$

2.

单纯形法:

1. Xi, Z, Si >= 0

¹Due date: April 23, 2019.