

Instituto Tecnológico de Costa Rica

Operations Research - Semester II

Knapsack Problem

Members:

Adrián Zamora Chavarría
Daniel Romero Murillo

Date: October 20, 2025

ASD

Maximize

$$Z = -0.00x_1 + -0.00x_2$$

Subject to

$$1.00x_1 + 0.00x_2 + - \leq 20.00$$

$$0.00x_1 + 1.00x_2 - + \leq 20.00$$

Simplex Table

	Z	x_1	x_2	s_0	s_1	b
	1.00	0.00	0.00	2.00	1.00	140.00
	0.00	1.00	0.00	2.00	-1.00	20.00
	0.00	0.00	1.00	-1.00	1.00	20.00

Intermediate Tables

Results

	Z	x_1	x_2	s_0	s_1	b
	1.00	0.00	0.00	2.00	1.00	140.00
	0.00	1.00	0.00	2.00	-1.00	20.00
	0.00	0.00	1.00	-1.00	1.00	20.00

DESPUES TERMINO ESTO