

DAFTAR PUSTAKA

- Ansar. 2018. “Implementasi Metode *Cutting Plane* dalam Optimasi Jumlah Produksi (Studi Kasus Pabrik Mie Cap Jempol Makassar)”. Jurusan Matematika. Fakultas SAINS dan Teknologi. Universitas Islam Negeri Makassar. Makassar.
- Cahya, Deden Septiansyah Dwi.2016. “Penerapan Kombinasi Produk dengan Menggunakan Linear Programmng untuk Memaksimalkan Keuntungan pada Ciwawa Cake and Bakery”. Pogram Studi Manajemen. Fakultas Ekonomi.Univesitas Pasundan .Bandung.
- Dwijono, D. 2016. ”Analisis Sensitivitas dan Penafsiran di dalam Pemrograman Linear dengan Perangkat Lunak Mangement Scientist Versi 6.0” dalam *Jurnal EKSIS, Vol 09 No 01*(hlm.29-37).
- Haming, Murdifin, dkk.2017. *Operation Research: Teknik pengambilan Keputusan Optimal*. Jakarta: PT.Bumi Aksara.
- Mulyono, Sri. 2017. *Riset Operasi*. Jakarta: Mitra Wacana Media.
- Nur, Wahyudin dan Nurul Mukhlisah Abdal. 2016. “Penggunaan Metode *Branch and Bound* dan *Gomory Cut* dalam Menentukan Solusi Integer Linear Programming” dalam *Jurnal Sainifik. Vol.2 No.1*(hlm.13).
- Pasaribu, Apiandy Hasian.2018. *Implementasi Metode Branch and Bound dalam Mengoptimalkan Jumlah Produk Guna Memaksimalkan Keuntungan*. Fakultas Matematika dan Ilmu Pengetahuan Alam. Universitas Sumatera Utara. Medan.
- Rangkuti, Aidawayati.2013. *7 Model Riset Operasi & Aplikasinya*. Surabaya: Brilian Internasional.

Taha, Hamdy A. 2007. *Operation Reseacrh : An Introduction*. New Jarsey : Person Educationh, Inc.

Wasi'ah, Dhuriattun. 2015."Penerapan Metode Gomory dalam Menyelesaikan Optimasi Perencanaan Produksi Pda Kelompok Wanita Tani (KWT) Seruni Berbah. Jurusan Matemaika". Fakultas SAINS dan Teknologi. Universitas Islam Negeri Sunan Kalijaga. Yogyakarta.

LAMPIRAN

Metode Simpleks

Tabel Awal Simpleks

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	NK
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	
0	S1	11.2	11.1	11.1	1	0	0	0	0	0	0	0	0	28745
0	S2	2.24	2.22	2.23	0	1	0	0	0	0	0	0	0	5750
0	S3	0.11	0.11	0.11	0	0	1	0	0	0	0	0	0	287
0	S4	1.12	1.11	1.11	0	0	0	1	0	0	0	0	0	2880
0	S5	1.13	1.1	1.2	0	0	0	0	1	0	0	0	0	2875
0	S6	0.17	0.16	0.17	0	0	0	0	0	1	0	0	0	432
0	S7	0	0	8.7	0	0	0	0	0	0	1	0	0	1500
0	S8	0	8.1	8.2	0	0	0	0	0	0	0	1	0	2500
0	S9	1.13	1.11	1.12	0	0	0	0	0	0	0	0	1	2900
	Zj	0	0	0	0	0	0	0	0	0	0	0	0	0
	Zj-Cj ≥ 0	-1790	-2542	-2817	0	0	0	0	0	0	0	0	0	0

Iterasi Pertama

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	NK	Rasio
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9		
0	S1	11.2	11.1	11.1	1	0	0	0	0	0	0	0	0	28745	2589.64
0	S2	2.24	2.22	2.23	0	1	0	0	0	0	0	0	0	5750	2578.475
0	S3	0.11	0.11	0.11	0	0	1	0	0	0	0	0	0	287	2609.091
0	S4	1.12	1.11	1.11	0	0	0	1	0	0	0	0	0	2880	2594.595
0	S5	1.13	1.1	1.2	0	0	0	0	1	0	0	0	0	2875	2395.833
0	S6	0.17	0.16	0.17	0	0	0	0	0	1	0	0	0	432	2541.176
0	S7	0	0	8.7	0	0	0	0	0	0	1	0	0	1500	172.4138
0	S8	0	8.1	8.2	0	0	0	0	0	0	0	1	0	2500	304.878
0	S9	1.13	1.11	1.12	0	0	0	0	0	0	0	0	1	2900	2589.286
	Zj	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Zj-Cj	-1790	-2542	-2817	0	0	0	0	0	0	0	0	0	0	

Iterasi Kedua

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	NK	Rasio
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9		
0	S1	11.2	11.1	0	1	0	0	0	0	0	-1.2759	0	0	26831.207	2417.226
0	S2	2.24	2.22	0	0	1	0	0	0	0	-0.2563	0	0	5365.5172	2416.9
0	S3	0.11	0.11	0	0	0	1	0	0	0	-0.0126	0	0	268.03448	2436.677
0	S4	1.12	1.11	0	0	0	0	1	0	0	-0.1276	0	0	2688.6207	2422.181
0	S5	1.13	1.1	0	0	0	0	0	1	0	-0.1379	0	0	2668.1034	2425.549
0	S6	0.17	0.16	0	0	0	0	0	0	1	-0.0195	0	0	402.68966	2516.81
2817	X3	0	0	1	0	0	0	0	0	0	0.1149	0	0	172.41379	-
0	S8	0	8.1	0	0	0	0	0	0	0	-0.9425	1	0	1086.2069	134.0996
0	S9	1.13	1.11	0	0	0	0	0	0	0	-0.1287	0	1	2706.8966	2438.646
	Z	0	0	2817	0	0	0	0	0	0	323.7931	0	0	485689.66	-
	Zj-Cj	-1790	-2542	0	0	0	0	0	0	0	323.7931	0	0	485689.66	-191.066

Iterasi Ketiga

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	NK	Rasio
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9		
0	S1	11.2	0	0	1	0	0	0	0	0	0.0158	-1.3704	0	25342.7011	2262.741
0	S2	2.24	0	0	0	1	0	0	0	0	0.0020	-0.2741	0	5067.81609	2262.418
0	S3	0.11	0	0	0	0	1	0	0	0	0.0002	-0.0136	0	253.283525	2302.577
0	S4	1.12	0	0	0	0	0	1	0	0	0.0016	-0.1370	0	2539.77011	2267.652
0	S5	1.13	0	0	0	0	0	0	1	0	-0.0099	-0.1358	0	2520.59387	2230.614
0	S6	0.17	0	0	0	0	0	0	0	1	-0.0009	-0.0198	0	381.233716	2242.551
2817	X3	0	0	1	0	0	0	0	0	0	0.1149	0.0000	0	172.413793	-
2542	X2	0	1	0	0	0	0	0	0	0	-0.1164	0.1235	0	134.099617	-
0	S9	1.13	0	0	0	0	0	0	0	0	0.0004	-0.1370	1	2558.04598	2263.758
	Z	0	2542	2817	0	0	0	0	0	0	28.0020	313.8272	0	826570.881	-
	Zj-Cj \geq 0	-1790	0	0	0	0	0	0	0	0	28.0020	313.8272	0	826570.881	-461.7714

Iterasi Keempat

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	NK
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	
0	S1	0	0	0	1	0	0	0	-9.9115	0	0.1142	-0.0244	0	359.82
0	S2	0	0	0	0	1	0	0	-1.9823	0	0.0217	-0.0049	0	71.24
0	S3	0	0	0	0	0	1	0	-0.0973	0	0.0011	-0.0004	0	7.92
0	S4	0	0	0	0	0	0	1	-0.9912	0	0.0114	-0.0024	0	41.48
1790	X1	1	0	0	0	0	0	0	0.8850	0	-0.0088	-0.1202	0	2230.61
0	S6	0	0	0	0	0	0	0	-0.1504	1	0.0006	0.0007	0	2.03
2817	X3	0	0	1	0	0	0	0	0.0000	0	0.1149	0.0000	0	172.41
2542	X2	0	1	0	0	0	0	0	0.0000	0	-0.1164	0.1235	0	134.10
0	S9	0	0	0	0	0	0	0	-1.0000	0	0.0104	-0.0012	1	37.45
	Zj	1790	2542	2817	0	0	0	0	1584.07	0	12.2669	98.7064	0	4819370.02
	Zj-Cj \geq 0	0	0	0	0	0	0	0	1584.07	0	12.2669	98.7064	0	4819370.02

Metode *Cutting Plane*

Setelah Penambahan Kendala Baru yang Pertama

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	NK
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	
0	S1	0	0	0	1	0	0	0	-9.912	0	0.114	-0.024	0	0	359.8239
0	S2	0	0	0	0	1	0	0	-1.982	0	0.022	-0.005	0	0	71.24063
0	S3	0	0	0	0	0	1	0	-0.097	0	0.001	0.000	0	0	7.91598
0	S4	0	0	0	0	0	0	1	-0.991	0	0.011	-0.002	0	0	41.48239
1790	X1	1	0	0	0	0	0	0	0.885	0	-0.009	-0.120	0	0	2230.614
0	S6	0	0	0	0	0	0	0	-0.150	1	0.001	0.001	0	0	2.029329
2817	X3	0	0	1	0	0	0	0	0	0	0.115	0.000	0	0	172.4138
2542	X2	0	1	0	0	0	0	0	0	0	-0.116	0.123	0	0	134.0996
0	S9	0	0	0	0	0	0	0	-1	0	0.010	-0.001	1	0	37.45211
0	Sg1	0	0	0	0	0	0	0	-0.88	0	-0.992	-0.880	0	1	-0.61
	Zj	1790	2542	2817	0	0	0	0	1584.07	0	12.267	98.706	0	0	4819370
	Zj-Cj \geq 0	0	0	0	0	0	0	0	1584.07	0	12.267	98.706	0	0	4819370

Iterasi Pertama Metode Dual Simpleks

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	NK
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	
0	S1	0	0	0	1	0	0	0	-10.01	0	0	-0.13	0	0.12	359.75
0	S2	0	0	0	0	1	0	0	-2.002	0	0	-0.02	0	0.02	71.23
0	S3	-0.001	-0.001	-0.001	-0.001	-0.001	0.99	-0.001	-0.1	-0.001	0	-0.001	-0.001	-0.001	7.91
0	S4	0	0	0	0	0	0	1	-1.001	0	0	-0.01	0	0.01	41.48
1790	X1	1	0	0	0	0	0	0	0.89	0	0	-0.11	0	-0.01	2230.62
0	S6	0	0	0	0	0	0	0	-0.15	1	0	0.001	0	0.001	2.03
2817	X3	0	0	1	0	0	0	0	-0.1	0	0	-0.1	0	0.12	172.34
2542	X2	0	1	0	0	0	0	0	0.1	0	0	0.23	0	-0.12	134.17
0	S9	0	0	0	0	0	0	0	-1.009	0	0	-0.01	1	0.01	37.45
0	S7	0	0	0	0	0	0	0	0.89	0	1	0.89	0	-1.01	0.61
	Zj	1790	2542	2817	0	0	0	0	1565.6	0	0	106.06	0	15.1	4819352
	Zj-Cj≥0	0	0	0	0	0	0	0	1565.6	0	0	106.06	0	15.1	0

Setelah Penambahan Kendala Baru yang Kedua

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	NK
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	
0	S1	0	0	0	1	0	0	0	-10.01	0	0	-0.13	0	0.12	0	359.75
0	S2	0	0	0	0	1	0	0	-2.002	0	0	-0.02	0	0.02	0	71.23
0	S3	-0.001	-0.001	-0.001	-0.001	-0.001	0.99	-0.001	-0.1	-0.001	0	-0.001	-0.001	-0.001	0	7.91
0	S4	0	0	0	0	0	0	1	-1.001	0	0	-0.01	0	0.01	0	41.48
1790	X1	1	0	0	0	0	0	0	0.89	0	0	-0.11	0	-0.01	0	2230.62
0	S6	0	0	0	0	0	0	0	-0.15	1	0	0.001	0	0.001	0	2.03
2817	X3	0	0	1	0	0	0	0	-0.1	0	0	-0.1	0	0.12	0	172.34
2542	X2	0	1	0	0	0	0	0	0.1	0	0	0.23	0	-0.12	0	134.17
0	S9	0	0	0	0	0	0	0	-1.009	0	0	-0.01	1	0.01	0	37.45
0	S7	0	0	0	0	0	0	0	0.89	0	1	0.89	0	-1.01	0	0.61
0	Sg2	0	0	0	0	0	0	0	-0.11	0	0	-0.89	0	-0.99	1	-0.62
	Zj	1790	2542	2817	0	0	0	0	1565.6	0	0	106.06	0	15.1	0	4819352
	Zj-Cj≥0	0	0	0	0	0	0	0	1565.6	0	0	106.06	0	15.1	0	
	Rasio	-	-	-	-	-	-	-	-14233	-	-	-119.1685	-	-15.2525253	0	

Iterasi Kedua Metode Dual Simpleks

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	NK
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	
0	S1	0	0	0	1	0	0	0	-9.9	0	0	-0.2	0	0	0.1	359.7
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	0.9	0	0	-0.1	0	0	0	2230.6
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	2
2817	X3	0	0	1	0	0	0	0	0	0	0	-0.2	0	0	0.1	172.3
2542	X2	0	1	0	0	0	0	0	0	0	0	0.3	0	0	-0.1	134.2
0	S9	0	0	0	0	0	0	0	-1	0	0	0	1	0	0	37.4
0	S7	0	0	0	0	0	0	0	1	0	1	1.8	0	0	-1	1.2
0	Sg1	0	0	0	0	0	0	0	0.1	0	0	0.9	0	1	-1	0.6
	Zj	1790	2542	2817	0	0	0	0	1584.3	0	0	60.1	0	0	33.0	4819349.1
	Zj-Cj≥0	0	0	0	0	0	0	0	1584.3	0	0	60.1	0	0	33.0	0

Setelah Penambahan Kendala Baru yang Ketiga

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	NK
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	
0	S1	0	0	0	1	0	0	0	-9.9	0	0	-0.2	0	0	0.1	0	359.7
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-2.0	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	-1	0	0	-0.1	0	0	0	0	2230.6
0	S6	0	0	0	0	0	0	0	0.9	1	0	0	0	0	0	0	2
2817	X3	0	0	1	0	0	0	0	0	0	0	-0.2	0	0	0.1	0	172.3
2542	X2	0	1	0	0	0	0	0	0	0	0	0.3	0	0	-0.1	0	134.2
0	S9	0	0	0	0	0	0	0	-1	0	0	0	1	0	0	0	37.4
0	S7	0	0	0	0	0	0	0	1	0	1	1.8	0	0	-1	0	1.2
0	Sg1	0	0	0	0	0	0	0	-1	0	0	0.9	0	1	-1	0	0.6
0	Sg3	0	0	0	0	0	0	0	1584.3	0	0	-0.9	0	0	0	1	-0.6
	Zj	1790	2542	2817	0	0	0	0	1584.3	0	0	92.5	0	0	33	0	4819342.3
	Zj-Cj≥0	0	0	0	0	0	0	0	1563.9	0	0	92.5	0	0	33	0	0.0
Rasio		-	-	-	-	-	-	-	1	-	-	-103	-	-	-	0	

Iterasi Ketiga Metode Dual Simpleks

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	NK
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	
0	S1	0	0	0	1	0	0	0	-362	0	0	0	0	0	0.1	-0.2	359.8
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	-177	0	0	0	0	0	0	0	2230.7
0	S6	0	0	0	0	0	0	0	0.9	1	0	0	0	0	0	0	2
2817	X3	0	0	1	0	0	0	0	-352.1	0	0	0	0	0	0	0	172.4
2542	X2	0	1	0	0	0	0	0	528.1	0	0	0	0	0	0	0	134
0	S9	0	0	0	0	0	0	0	-1	0	0	0	1	0	0	0	37.4
0	S7	0	0	0	0	0	0	0	3169.6	0	1	0	0	0	-1	2	0
0	Sg1	0	0	0	0	0	0	0	1583.3	0	0	0	0	1	-1	1	0
0	S8	0	0	0	0	0	0	0	-1760.3	0	0	1	0	0	0	-1	0.7
	Zj	1790	2542	2817	0	0	0	0	33750.7	0	0	72.28525	0	0	33	22.44444	4819329
	Zj-Cj≥0	0	0	0	0	0	0	0	33750.7	0	0	72.28525	0	0	33	22.44444	

Setelah Penambahan Kendala Baru yang Keempat

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	NK
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	
0	S1	0	0	0	1	0	0	0	-10	0	0	0	0	0	0.1	-0.2	0	359.8
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	0.9	0	0	0	0	0	0	-0.1	0	2230.7
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	2
2817	X3	0	0	1	0	0	0	0	-0.1	0	0	0	0	0	0.1	-0.2	0	172.4
2542	X2	0	1	0	0	0	0	0	0.1	0	0	0	0	0	-0.1	0.3	0	134.0
0	S9	0	0	0	0	0	0	0	-1	0	0	0	1	0	0	0	0	37.4
0	S7	0	0	0	0	0	0	0	1.2	0	1	0	0	0	-1	2	0	0
0	Sg1	0	0	0	0	0	0	0	0.2	0	0	0	0	1	-1	1	0	0
0	S8	0	0	0	0	0	0	0	-0.1	0	0	1	0	0	0	-1.1	0	0.7
0	Sg4	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	-0.9	1	-0.7
	Zj	1790	2542	2817	0	0	0	0	1566.17	0	0	72.28525	0	0	33	22.44444	0	4819329
	Zj-Cj≥0	0	0	0	0	0	0	0	1566.17	0	0	72.28525	0	0	33	22.44444	0	
Rasio		-	-	-	-	-	-	-	15661.7	-	-	-	-	-	-	-24.93827	0	-6884755

Iterasi Keempat Metode Dual Simpleks

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Nk
0	S1	0	0	0	1	0	0	0	-10	0	0	0	0	0	0.1	0	-0.2	360
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0	-0.1	2230.8
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	2.0
2817	X3	0	0	1	0	0	0	0	-0.2	0	0	0	0	0	0	0	-0.2	172.6
2542	X2	0	1	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0.3	133.8
0	S9	0	0	0	0	0	0	0	-1	0	0	0	1	0	0	0	0	37.4
0	S7	0	0	0	0	0	0	0	1.4	0	1	0	0	0	-1	0	2.2	-1.5
0	Sg1	0	0	0	0	0	0	0	0.3	0	0	0	0	1	-1	0	1.1	-0.8
0	S8	0	0	0	0	0	0	0	-0.2	0	0	1	0	0	0	0	-1.2	1.5
0	Sg3	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	1	-1.1	0.8
	Zj	1790	2542	2817	0	0	0	0	1568.4	0	0	72.3	0	0	33	2.2	22.4	4819313
	Zj-Cj≥0	0	0	0	0	0	0	0	1568.4	0	0	72.3	0	0	33	2.2	22.4	4819313

Setelah Penambahan Kendala Baru yang Kelima

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Sg5	Nk
0	S1	0	0	0	1	0	0	0	-10	0	0	0	0	0	0.1	0	-0.2	0	360
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0	0	-0.1	2230.8
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	0	2
2817	X3	0	0	1	0	0	0	0	-0.2	0	0	0	0	0	0.1	0	-0.2	0	172.6
2542	X2	0	1	0	0	0	0	0	0.2	0	0	0	0	0	-0.1	0	0.3	0	133.8
0	S9	0	0	0	0	0	0	0	-1	0	0	0	1	0	0	0	0	0	37.4
0	S7	0	0	0	0	0	0	0	1.4	0	1	0	0	0	-1	0	2.2	0	-1.5
0	Sg1	0	0	0	0	0	0	0	0.3	0	0	0	0	1	-1	0	1.1	0	-0.8
0	S8	0	0	0	0	0	0	0	-0.2	0	0	1	0	0	0	0	-1.2	0	1.5
0	Sg3	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	1	-1.1	0	0.8
0	Sg5	0	0	0	0	0	0	0	0.8	0	0	0	0	0	-0.9	0	0.7	1	-0.8
	Zj	1790	2542	2817	0	0	0	0	1568.4	0	0	72.3	0	0	33	2.2	22.4	0	4819313
	Zj-Cj≥0	0	0	0	0	0	0	0	1568.4	0	0	72.3	0	0	33	2.2	22.4	0	4819313
	Rasio	-	-	-	-	-	-	-	1102.8	-	0	-35788	-	-	-33	-	10.08	-	-3185206

Iterasi Kelima Metode Dual Simpleks

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Sg5	Nk
0	S1	0	0	0	1	0	0	0	-9.9	0	0.1	0	0	0	0	0	0	0	359.8
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0	-0.1	0	2230.8
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	0	2
2817	X3	0	0	1	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	172.4
2542	X2	0	1	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0.1	0	134
0	S9	0	0	0	0	0	0	0	-1	0	0	0	1	0	0	0	0	0	37.4
0	Sg2	0	0	0	0	0	0	0	-1.4	0	-1	0	0	0	1	0	-2.2	0	1.5
0	Sg1	0	0	0	0	0	0	0	-1.1	0	-1	0	0	1	0	0	-1.1	0	0.8
0	S8	0	0	0	0	0	0	0	-0.2	0	0	1	0	0	0	0	-1.2	0	1.5
0	Sg3	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	1	-1.1	0	0.8
0	Sg5	0	0	0	0	0	0	0	-0.5	0	-0.9	0	0	0	0	0	-1.3	1	0.6
	Zj	1790	2542	2817	0	0	0	0	1607.5	0	27.5	72.2	0	0	5.5	2.2	83.6	0	4819271.5
	Zj-Cj≥0	0	0	0	0	0	0	0	1607.5	0	27.5	72.2	0	0	5.5	2.2	83.6	0	4819271.5

Setelah Penambahan Kendala Baru yang Keenam

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Sg5	Sg6	Nk
0	S1	0	0	0	1	0	0	0	-9.9	0	0.1	0	0	0	0	0	0	0	0	359.8
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0	-0.1	0	0	2230.8
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	0	0	2
2817	X3	0	0	1	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	172.4
2542	X2	0	1	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0.1	0	0	134
0	S9	0	0	0	0	0	0	0	-1	0	0	0	1	0	0	0	0	0	0	37.4
0	Sg2	0	0	0	0	0	0	0	-1.4	0	-1	0	0	0	1	0	-2.2	0	0	1.5
0	Sg1	0	0	0	0	0	0	0	-1.1	0	-1	0	0	1	0	0	-1.1	0	0	0.8
0	S8	0	0	0	0	0	0	0	-0.2	0	0.0	1	0	0	0	0	-1.2	0	0	1.5
0	Sg3	0	0	0	0	0	0	0	-0.1	0	0.0	0	0	0	1	-1.1	0	0	0	0.8
0	Sg5	0	0	0	0	0	0	0	-0.5	0	-0.9	0	0	0	0	0	-1.3	1	0	0.6
0	Sg6	0	0	0	0	0	0	0	0.1	0	0.0	0	0	0	0	0	-0.9	0	1	-0.8
	Zj	1790	2542	2817	0	0	0	0	1607.5	0	27.5	72.2	0	0	5.5	2.2	83.6	0	0	4819271.5
	Zj-Cj≥0	0	0	0	0	0	0	0	1607.5	0	27.5	72.2	0	0	5.5	2.2	83.6	0	0	4819271.5
Rasio		-	-	-	-	-	-	-	16075.2	-	-	-	-	-	-	-	-92.83951	0	-6024089	

Iterasi Keenam Metode Dual Simpleks

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Sg5	Sg6	Nk	
0	S1	0	0	0	1	0	0	0	-9.9	0	0.1	0	0	0	0	0	0	0	0	359.8	
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	0	0	71.2	
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	0	0	7.9	
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	0	41.5	
1790	X1	1	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0	0	0	0	-0.1	2230.9
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	0	0	2	
2817	X3	0	0	1	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	172.4	
2542	X2	0	1	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	0	0.1	134
0	S9	0	0	0	0	0	0	0	-1.0	0	0	0	1	0	0	0	0	0	0	37.4	
0	Sg2	0	0	0	0	0	0	0	-1.7	0	-1	0	0	0	1	0	0	0	-2.4	3.5	
0	Sg1	0	0	0	0	0	0	0	-1.2	0	-1	0	0	1	0	0	0	0	-1.2	1.7	
0	S8	0	0	0	0	0	0	0	-0.4	0	0	1	0	0	0	0	0	0	-1.3	2.6	
0	Sg3	0	0	0	0	0	0	0	-0.2	0	0	0	0	0	0	1	0	0	-1.2	1.8	
0	Sg5	0	0	0	0	0	0	0	-0.6	0	-0.9	0	0	0	0	0	0	1	-1.4	1.7	
0	Sg4	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	1	0	-1.1	0.9	
	Zj	1790	2542	2817	0	0	0	0	1615.9	0	27.5	72.2	0	0	5.5	2.2	8.4	0	83.6	4819204.6	
	Zj-Cj \geq 0	0	0	0	0	0	0	0	1615.9	0	27.5	72.2	0	0	5.5	2.2	8.4	0	83.6	4819204.6	

Setelah Penambahan Kendala Baru yang Keenam

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Sg5	Sg6	Nk	
0	S1	0	0	0	1	0	0	0	-9.9	0	0.1	0	0	0	0	0	0	0	0	0	359.8
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0	0	0	0	-0.1	2230.9
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	0	0	0	2
2817	X3	0	0	1	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	172.4
2542	X2	0	1	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	0	0.1	134
0	S9	0	0	0	0	0	0	0	-1.0	0	0	0	1	0	0	0	0	0	0	0	37.4
0	Sg2	0	0	0	0	0	0	0	-1.7	0	-1	0	0	0	1	0	0	0	0	-2.4	3.5
0	Sg1	0	0	0	0	0	0	0	-1.2	0	-1	0	0	1	0	0	0	0	0	-1.2	1.7
0	S8	0	0	0	0	0	0	0	-0.4	0	0	1	0	0	0	0	0	0	0	-1.3	2.6
0	Sg3	0	0	0	0	0	0	0	-0.2	0	0	0	0	0	0	1	0	0	0	-1.2	1.8
0	Sg5	0	0	0	0	0	0	0	-0.6	0	-0.9	0	0	0	0	0	0	1	0	-1.4	1.7
0	Sg4	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	1	0	0	-1.1	0.9
	Zj	1790	2542	2817	0	0	0	0	1615.9	0	27.5	72.2	0	0	5.5	2.2	8.4	0	0	83.6	4819204.6
	Zj-Cj≥0	0	0	0	0	0	0	0	1615.9	0	27.5	72.2	0	0	5.5	2.2	8.4	0	0	83.6	4819204.6

Setelah Penambahan Kendala Baru yang Ketujuh

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sg7	0		
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Sg5	Sg6		Nk		
0	S1	0	0	0	1	0	0	0	-9.9	0	0.1	0	0	0	0	0	0	0	0	0	359.8		
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	71.2		
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	0	0	0	7.9		
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	0	0	41.5		
1790	X1	1	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0	0	0	0	-0.1	0	2230.9	
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	0	0	0	2		
2817	X3	0	0	1	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	172.4		
2542	X2	0	1	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	0	0.1	0	134	
0	S9	0	0	0	0	0	0	0	-1	0	0	0	1	0	0	0	0	0	0	0	37.4		
0	Sg2	0	0	0	0	0	0	0	-1.7	0	-1	0	0	0	1	0	0	0	0	-2.4	0	3.5	
0	Sg1	0	0	0	0	0	0	0	-1.2	0	-1	0	0	1	0	0	0	0	0	-1.2	0	1.7	
0	S8	0	0	0	0	0	0	0	-0.4	0	0	1	0	0	0	0	0	0	0	-1.3	0	2.6	
0	Sg3	0	0	0	0	0	0	0	-0.2	0	0	0	0	0	0	1	0	0	0	-1.2	0	1.8	
0	Sg5	0	0	0	0	0	0	0	-0.6	0	-0.9	0	0	0	0	0	0	1	0	-1.4	0	1.7	
0	Sg4	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	1	0	0	-1.1	0	0.9	
0	Sg7	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	-0.9	1	-0.9	
	Zj	1790	2542	2817	0	0	0	0	1615.9	0	27.5	72.2	0	0	5.5	2.2	8.4	0	0	83.6	0	4819204.6	
	Zj-Cj \geq 0	0	0	0	0	0	0	0	1615.9	0	27.5	72.2	0	0	5.5	2.2	8.4	0	0	83.6	0	4819204.6	
Rasio		-	-	-	-	-	-	-	16159	-	-	-	-	-	-	-	-	-	-	-	-92.8395	0	-5354672

Iterasi Ketujuh Metode Dual Simpleks

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Sg5	Sg6	Sg7	Nk	
0	S1	0	0	0	1	0	0	0	-9.9	0	0.1	0	0	0	0	0	0	0	0	0	0	359.8
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	-0.1	2231
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	0	0	0	0	2
2817	X3	0	0	1	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	172.4
2542	X2	0	1	0	0	0	0	0	0.1	0	-0.1	0	0	0	0	0	0	0	0	0	0.1	134
0	S9	0	0	0	0	0	0	0	-1.0	0	0	0	1	0	0	0	0	0	0	0	0	37.4
0	Sg2	0	0	0	0	0	0	0	-1.9	0	-1	0	0	0	1	0	0	0	0	0	-2.7	5.9
0	Sg1	0	0	0	0	0	0	0	-1.4	0	-1	0	0	1	0	0	0	0	0	0	-1.3	2.9
0	S8	0	0	0	0	0	0	0	-0.5	0	0	1	0	0	0	0	0	0	0	0	-1.4	3.9
0	Sg3	0	0	0	0	0	0	0	-0.4	0	0	0	0	0	0	1	0	0	0	0	-1.3	3
0	Sg5	0	0	0	0	0	0	0	-0.8	0	-0.9	0	0	0	0	0	0	1	0	0	-1.6	3.1
0	Sg4	0	0	0	0	0	0	0	-0.2	0	0	0	0	0	0	0	1	0	0	0	-1.2	2
0	Sg6	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	0	0	1	0	-1.1	1
	Zj	1790	2542	2817	0	0	0	0	1624.2	0	27.5	72.2	0	0	5.5	2.2	8.4	0	8.4	83.6	4819129.4	
	Zj-Cj≥0	0	0	0	0	0	0	0	1624.2	0	27.5	72.2	0	0	5.5	2.2	8.4	0	8.4	83.6	4819129.4	

Setelah Penambahan Kendala Baru yang Kedelapan

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Sg5	Sg6	Sg7	Sg8	Nk	
0	S1	0	0	0	1	0	0	0	-9.9	0	0.1	0	0	0	0	0	0	0	0	0	0	359.8	
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	71.2	
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	0	0	0	0	7.9	
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	0	0	0	41.5	
1790	X1	1	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	2231
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	0	0	0	0	2	
2817	X3	0	0	1	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	172.4
2542	X2	0	1	0	0	0	0	0	0.1	0	-0.1	0	0	0	0	0	0	0	0	0	0.1	0	134
0	S9	0	0	0	0	0	0	0	-1	0	0	0	1	0	0	0	0	0	0	0	0	0	37.4
0	Sg2	0	0	0	0	0	0	0	-1.9	0	-1	0	0	0	1	0	0	0	0	0	-2.7	0	5.9
0	Sg1	0	0	0	0	0	0	0	-1.4	0	-1	0	0	1	0	0	0	0	0	0	-1.3	0	2.9
0	S8	0	0	0	0	0	0	0	-0.5	0	0	1	0	0	0	0	0	0	0	0	-1.4	0	3.9
0	Sg3	0	0	0	0	0	0	0	-0.4	0	0	0	0	0	0	1	0	0	0	0	-1.3	0	3
0	Sg5	0	0	0	0	0	0	0	-0.8	0	-0.9	0	0	0	0	0	0	1	0	0	-1.6	0	3.1
0	Sg4	0	0	0	0	0	0	0	-0.2	0	0	0	0	0	0	0	1	0	0	0	-1.2	0	2
0	Sg6	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	0	0	0	1	-1.1	0	1
0	Sg8	0	0	0	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0	0	0	0	1	-0.4
	Zj	1790	2542	2817	0	0	0	0	1624.2	0.0	27.5	72.2	0	0	5.5	2.2	8.4	0	8.4	83.6	0	4819129.4	
	Zj-Cj≥0	0	0	0	0	0	0	0	1624.2	0.0	27.5	72.2	0	0	5.5	2.2	8.4	0	8.4	83.6	0	4819129.4	
Rasio		-	-	-	-	-	-	-	-	-	30.5555556	-	-	-	-	-	-	-	-	-	-	0	-12047824

Iterasi Kedelapan Metode Dual Simpleks

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Sg5	Sg6	Sg7	Sg8	Nk	
0	S1	0	0	0	1	0	0	0	-9.9	0	0	0	0	0	0	0	0	0	0	0	0	-0.1	359.9
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	2231
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	0	0	0	0	0	2.0
2817	X3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.1	172.4
2542	X2	0	1	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	134
0	S9	0	0	0	0	0	0	0	-1.0	0	0	0	1	0	0	0	0	0	0	0	0	0	37.4
0	Sg2	0	0	0	0	0	0	0	-1.9	0	0	0	0	0	1	0	0	0	0	0	-2.7	1.1	5.4
0	Sg1	0	0	0	0	0	0	0	-1.4	0	0	0	0	1	0	0	0	0	0	0	-1.3	1.1	2.5
0	S8	0	0	0	0	0	0	0	-0.5	0	0	1	0	0	0	0	0	0	0	0	-1.4	0	3.9
0	Sg3	0	0	0	0	0	0	0	-0.4	0	0	0	0	0	0	1	0	0	0	0	-1.3	0	3
0	Sg5	0	0	0	0	0	0	0	-0.8	0	0	0	0	0	0	0	0	1	0	0	-1.6	1	2.7
0	Sg4	0	0	0	0	0	0	0	-0.2	0	0	0	0	0	0	0	1	0	0	0	-1.2	0	2
0	Sg6	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	0	0	1	0	-1.1	0	1
0	S7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1.1	-0.4
	Zj	1790	2542	2817	0	0	0	0	1624.2	0	0	72.2297	0	0	5.5	2.24444	8.35556	0	8.35556	83.5556	-30.55556		
	Zj-Cj ≥ 0	0	0	0	0	0	0	0	1624.2	0	0	72.2297	0	0	5.5	2.24444	8.35556	0	8.35556	83.5556	-30.55556	0	

Setelah Penambahan Kendala Baru yang Kesembilan

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Sg5	Sg6	Sg7	Sg8	Sg9	Nk
0	S1	0	0	0	1	0	0	0	-9.9	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	359.9
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	-0.1	0	0	2231
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	0	0	0	0	0	2
2817	X3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	172.4
2542	X2	0	1	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0	134
0	S9	0	0	0	0	0	0	0	-1.0	0	0	0	1	0	0	0	0	0	0	0	0	0	37.4
0	Sg2	0	0	0	0	0	0	0	-1.9	0	0	0	0	0	1	0	0	0	0	-2.7	1.1	0	5.4
0	Sg1	0	0	0	0	0	0	0	-1.4	0	0	0	0	1	0	0	0	0	0	-1.3	1.1	0	2.5
0	S8	0	0	0	0	0	0	0	-0.5	0	0	1	0	0	0	0	0	0	0	-1.4	0	0	3.9
0	Sg3	0	0	0	0	0	0	0	-0.4	0	0	0	0	0	0	1	0	0	0	-1.3	0	0	3
0	Sg5	0	0	0	0	0	0	0	-0.8	0	0	0	0	0	0	0	0	1	0	-1.6	1	0	2.7
0	Sg4	0	0	0	0	0	0	0	-0.2	0	0	0	0	0	0	0	1	0	0	-1.2	0	0	2
0	Sg6	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	0	0	1	-1.1	0	0	1
0	S7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0.0	1.1	0	-0.4
0	Sg9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.9	1	-0.4
	Zj	1790	2542	2817	0	0	0	0	1624.2	0	0	72.2	0	0	5.5	2.244444	8.355556	0	8.355556	83.555556	-30.555556	0	4819829
	Zj-Cj≥0	0	0	0	0	0	0	0	1624.2	0	0	72.2	0	0	5.5	2.244444	8.355556	0	8.355556	83.555556	-30.555556	0	4819829
Rasio		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.9506173	0	-12049571

Iterasi Kesembilan Metode Dual Simpleks

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Sg5	Sg6	Sg7	Sg8	Sg9	Nk	
0	S1	0	0	0	1	0	0	0	-9.9	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.1	359.9
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	-0.1	0	0	0	2231
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2817	X3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.1	172.5
2542	X2	0	1	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0	134
0	S9	0	0	0	0	0	0	0	-1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	37.4
0	Sg2	0	0	0	0	0	0	0	-1.9	0	0	0	0	0	1	0	0	0	0	-2.7	0	1.2	0	4.9
0	Sg1	0	0	0	0	0	0	0	-1.4	0	0	0	0	1	0	0	0	0	0	-1.3	0	1.2	0	2.0
0	S8	0	0	0	0	0	0	0	-0.5	0	0	1	0	0	0	0	0	0	0	-1.4	0	0	0	3.9
0	Sg3	0	0	0	0	0	0	0	-0.4	0	0	0	0	0	0	1	0	0	0	-1.3	0	0	0	3
0	Sg5	0	0	0	0	0	0	0	-0.8	0	0	0	0	0	0	0	0	1	0	-1.6	0	1.1	0	2.3
0	Sg4	0	0	0	0	0	0	0	-0.2	0	0	0	0	0	0	0	1	0	0	-1.2	0	0	0	2
0	Sg6	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	0	0	1	-1.1	0	0	0	1
0	S7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1.2	0	-0.9
0	Sg8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-1.1	0	0.4
	Zj	1790	2542	2817	0	0	0	0	1624.2	0	0	72.2	0	0	5.5	2.244444	8.355556	0	8.355556	83.555556	-3.055556	-30.56	0	4819841
	Zj-Cj≥0	0	0	0	0	0	0	0	1624.2	0	0	72.2	0	0	5.5	2.244444	8.355556	0	8.355556	83.555556	-3.055556	-30.56	0	4819841

Setelah Penambahan Kendala Baru yang Kesepuluh

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Sg5	Sg6	Sg7	Sg8	Sg9	Sg10	Nk
0	S1	0	0	0	1	0	0	0	-9.9	0	0	0	0	0	0	0	0	0	0	0	0	-0.1	0.0	359.9
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	-0.1	0	0	0	2231
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2817	X3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.1	0	172.5
2542	X2	0	1	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0	134
0	S9	0	0	0	0	0	0	0	-1.0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	37.4
0	Sg2	0	0	0	0	0	0	0	-1.9	0	0	0	0	0	1	0	0	0	0	-2.7	0	1.2	0	4.9
0	Sg1	0	0	0	0	0	0	0	-1.4	0	0	0	0	1	0	0	0	0	0	-1.3	0	1.2	0	2
0	S8	0	0	0	0	0	0	0	-0.5	0	0	1	0	0	0	0	0	0	0	-1.4	0	0	0	3.9
0	Sg3	0	0	0	0	0	0	0	-0.4	0	0	0	0	0	0	1	0	0	0	-1.3	0	0	0	3
0	Sg5	0	0	0	0	0	0	0	-0.8	0	0	0	0	0	0	0	1	0	0	-1.6	0	1.1	0	2.3
0	Sg4	0	0	0	0	0	0	0	-0.2	0	0	0	0	0	0	0	1	0	0	-1.2	0	0	0	2
0	Sg6	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	0	0	1	-1.1	0	0	0	1
0	S7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1.2	0	-0.9
0	Sg8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-1.1	0	0	0.4
0	Sg10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.9	1	-0.5
	Zj	1790	2542	2817	0	0	0	0	1624	0	0	72.23	0	0	5.5	2.24444	8.35556	0	8.35556	83.5556	-3.05556	-30.6	0	4819840.76
	Zj-Cj≥0	0	0	0	0	0	0	0	1624	0	0	72.23	0	0	5.5	2.24444	8.35556	0	8.35556	83.5556	-3.05556	-30.6	0	4819840.76
Rasio		-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-275	-25	-	5164115.1

Iterasi Kesepuluh Metode Dual Simpleks

Cj	Basis	1790	2542	2817	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Variabel	X1	X2	X3	S1	S2	S3	S4	S5	S6	S7	S8	S9	Sg1	Sg2	Sg3	Sg4	Sg5	Sg6	Sg7	Sg8	Sg9	Sg10	Nk
0	S1	0	0	0	1	0	0	0	-9.9	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	360
0	S2	0	0	0	0	1	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71.2
0	S3	0	0	0	0	0	1	0	-0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.9
0	S4	0	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41.5
1790	X1	1	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	-0.1	0	0	0	2231
0	S6	0	0	0	0	0	0	0	-0.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2817	X3	0	0	1	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	173
2542	X2	0	1	0	0	0	0	0	0.1	0	-0.1	0	0	0	0	0	0	0	0	0.1	0	0	0	134
0	S9	0	0	0	0	0	0	0	-1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	37.4
0	Sg2	0	0	0	0	0	0	0	-1.9	0	-1	0	0	0	1	0	0	0	0	-2.7	0	0	0	4
0	Sg1	0	0	0	0	0	0	0	-1.4	0	-1	0	0	1	0	0	0	0	0	-1.3	0	0	0	1
0	S8	0	0	0	0	0	0	0	-0.5	0	0	1	0	0	0	0	0	0	0	-1.4	0	0	0	3.9
0	Sg3	0	0	0	0	0	0	0	-0.4	0	0	0	0	0	0	1	0	0	0	-1.3	0	0	0	3
0	Sg5	0	0	0	0	0	0	0	-0.8	0	-0.9	0	0	0	0	0	0	1	0	-1.6	0	0	0	1.4
0	Sg4	0	0	0	0	0	0	0	-0.2	0	0	0	0	0	0	0	1	0	0	-1.2	0	0	0	2
0	Sg6	0	0	0	0	0	0	0	-0.1	0	0	0	0	0	0	0	0	0	1	-1.1	0	0	0	1
0	Sg9	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	1	0	0.8
0	Sg8	0	0	0	0	0	0	0	0	0	0.9	0	0	0	0	0	0	0	0	0	1	0	0	1.3
0	Sg10	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	1	0.2
	Zj	1790	2542	2817	0	0	0	0	1624.2	0	22.9	72.2	0	0	5.5	2.2	8.4	0	8.4	83.6	2.8	2.5	0	4819862.757
	Zj-Cj≥0	0	0	0	0	0	0	0	1624.2	0	22.9	72.2	0	0	5.5	2.2	8.4	0	8.4	83.6	2.8	2.5	0	4819862.757

