

z	x1	x2	x3	x4	x5	x6	定数
-1	3	2	4	0	0	0	0
0	1	1	2	1	0	0	4
0	2	0	2	0	1	0	5
0	2	1	3	0	0	1	7

取入変数: x3

Ratio Test

4/2 2.000

5/2 2.500

7/3 2.333

追出変数: x4

-1	1	0	0	-2	0	0	-8
0	0.5	0.5	1	0.5	0	0	2
0	1	-1	0	-1	1	0	1
0	0.5	-0.5	0	-1.5	0	1	1

z	x1	x2	x3	x4	x5	x6	定数
-1	1	0	0	-2	0	0	-8
0	0.5	0.5	1	0.5	0	0	2
0	1	-1	0	-1	1	0	1
0	0.5	-0.5	0	-1.5	0	1	1

取入変数: x1

Ratio Test

2/0.5 4.000

1/1 1.000

1/0.5 2.000

追出変数: x5

-1	0	1	0	-1	-1	0	-9
0	0	1	1	1	-0.5	0	1.5
0	1	-1	0	-1	1	0	1
0	0	0	0	-1	-0.5	1	0.5

z	x1	x2	x3	x4	x5	x6	定数
-1	0	1	0	-1	-1	0	-9
0	0	1	1	1	-0.5	0	1.5
0	1	-1	0	-1	1	0	1
0	0	0	0	-1	-0.5	1	0.5

取入変数: x2

Ratio Test

1.5/1 1.500

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追出変数: x3

-1	0	0	-1	-2	-0.5	0	-10.5
0	0	1	1	1	-0.5	0	1.5
0	1	0	1	0	0.5	0	2.5
0	0	0	0	-1	-0.5	1	0.5

z	x1	x2	x3	x4	x5	x6	定数
-1	0	0	-1	-2	-0.5	0	-10.5
0	0	1	1	1	-0.5	0	1.5
0	1	0	1	0	0.5	0	2.5
0	0	0	0	-1	-0.5	1	0.5

最適!

$x_{opt} = (x1, x2, x3, x4, x5, x6) = (2.5, 1.5, 0, 0, 0, 0.5)$

$Z_{opt} = 3*x1 + 2*x2 + 4*x3 = 3*2.5 + 2*1.5 + 4*0 = 10.5$