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1.

初始单纯形表

2	3	6	0	0	0	1
1	2	3	1	0	0	10
1	0	-1	0	1	0	3
0	-1	2	0	0	1	5

更新单纯形表

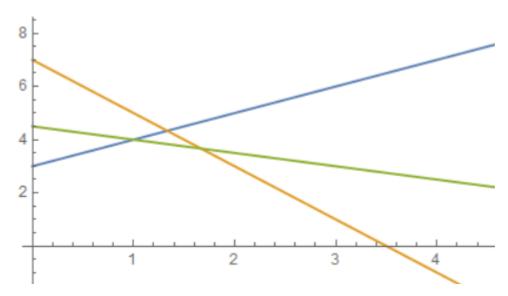
2	6	0	0	0	3	-14
1	3.5	0	1	0	-1.5	2.5
1	-0.5	0	0	1	0.5	5.5
0	-0.5	1	0	0	0.5	2.5

2	6	0	0	0	3	-14
2/7	1	0	2/7	0	-3/7	5/7
8/7	0	0	1/7	1	2/7	41/7
1/7	0	1	1/7	0	2/7	20/7

0	-1	0	-2	0	0	-19
1	3.5	0	1	0	-1.5	2.5
0	-4	0	-1	1	2	3
0	-0.5	1	0	0	0.5	2.5

$$x1 = 2.5$$
 $x2 = 0$ $x3 = 2.5$ $max = 19$

2.



如图所示 ,可以选 x=0,y=7

1.

$$(p \wedge q \wedge r) \vee (\neg p \wedge q \wedge r) \vee (\neg p \wedge \neg q \wedge r)$$

2.

- $1. \quad \top \, , s \ is \ marked \ return \ satisfiable$
- 2. \top , p5, p11, \bot is markded return unsatisfiable
- 3. ⊤, q, s is marked return satisfiable