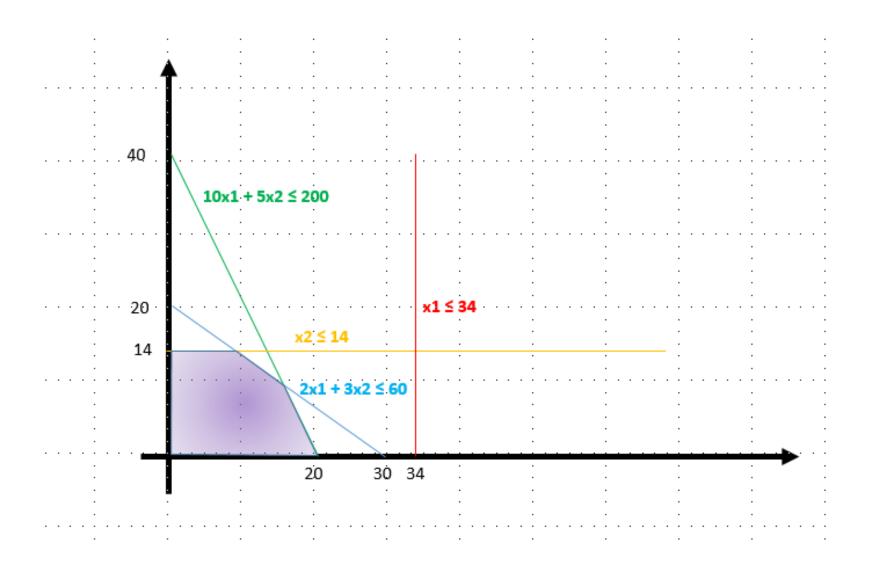


Graphical Method (with Gridlines)



```
Max Z = 1000x1 + 1200x2
s.t:
10x1 + 5x2 \le 200
2x1 + 3x2 \le 60
x1 \le 34
x2 \le 14
```

Simplex with Table

```
Max Z = 1000x1 + 1200x2 + 0S1 + 0S2 + 0S3 + 0S4
s.t:
10x1 + 5x2 + S1 = 200
2x1 + 3x2 + S2 = 60
x1 + S3 = 34
```

x2 + S4 = 14

Basic	Z	x1	x2	S1	S2	S 3	S4	Right	
Z 0	1	-1000	-1200	0	0	0	0	0	
S1	0	10	5	1	0	0	0	200	
S2	0	2	3	0	1	0	0	60	
S 3	0	1	0	0	0	1	0	34	
S4	0	0	1	0	0	0	1	14	
		1							

Pivot

Min is 14

40

20

+∞

14

Basic	Z	x1	x2	S1	S2	S 3	S4	Right	
Z 0	1	-1000	0	0	0	0	1200	16800	
S1	0	10	0	1	0	0	-5	130	13
S2	0	2	0	0	1	0	-3	18	9
S 3	0	1	0	0	0	1	0	34	34
x2	0	0	1	0	0	0	1	14] +∞
	Z0 S1 S2	Z0 1 S1 0 S2 0 S3 0	Z0 1 -1000 S1 0 10 S2 0 2 S3 0 1	Z0 1 -1000 0 S1 0 10 0 S2 0 2 0 S3 0 1 0	Z0 1 -1000 0 0 S1 0 10 0 1 S2 0 2 0 0 S3 0 1 0 0	ZO 1 -1000 0 0 0 S1 0 10 0 1 0 S2 0 2 0 0 1 S3 0 1 0 0 0	Z0 1 -1000 0 0 0 0 S1 0 10 0 1 0 0 S2 0 2 0 0 1 0 S3 0 1 0 0 0 1	ZO 1 -1000 0 0 0 0 1200 S1 0 10 0 1 0 0 -5 S2 0 2 0 0 1 0 -3 S3 0 1 0 0 0 1 0	ZO 1 -1000 0 0 0 0 1200 16800 S1 0 10 0 1 0 0 -5 130 S2 0 2 0 0 1 0 -3 18 S3 0 1 0 0 0 1 0 34

Pivot

Min is 9

									_
Basic	Z	x 1	x2	S1	S2	S 3	S 4	Right	
Z0	1	0	0	0	500	0	-300	25800	
S1	0	0	0	1	-5	0	10	40	4
x1	0	1	0	0	1/2	0	-3/2	9	-13.5
S 3	0	0	0	0	-1/2	0	3/2	25	37.5
x2	0	0	1	0	0	0	1	14	14
					,			•	

Pivot

Min is 4

Basic	Z	x1	x 2	S1	S2	S3	S4	Right	
Z0	1	0	0	30	350	0	0	27000	
S4	0	0	0	0.1	-0.5	0	1	4	
x2	0	1	0	3/20	-1/4	0	0	15	
S 3	0	0	0	-3/20	1/4	0	0	19	
x1	0	0	1	-0.1	1/2	0	0	10	

