MINIMIZATION

Cj	Basic Variables	3 X1	5 X2	0 slack 1	0 artfcl 2	0 artfcl 3	0 surplus 3	Quantity
Iteration 1								
0	slack 1	1	0	1	0	0	0	4
0	artfcl 2	0	2	0	1	0	0	12
0	artfcl 3	3	2	0	0	1	-1	18
	zj	0	1	0	0	0	1	30
	cj-zj	3	4	0	0	0	-1	
Iteration 2								
0	slack 1	1	0	1	0	0	0	4
5	X2	0	1	0	0.5	0	0	6
0	artfcl 3	3	0	0	-1	1	-1	6
	zj	0	5	0	2	0	1	6
	cj-zj	3	0	0	-2	0	-1	
Iteration 3								
0	slack 1	0	0	1	0.3333	-0.3333	0.3333	2
5	X2	0	1	0	0.5	0	0	6
3	X1	1	0	0	-0.3333	0.3333	-0.3333	2
	zj	3	5	0	1	1	0	0
	cj-zj	0	0	0	-1	-1	0	
Iteration 4								
0	slack 1	0	0	1	0.3333	-0.3333	0.3333	2
5	X2	0	1	0	0.5	0	0	6
3	X1	1	0	0	-0.3333	0.3333	-0.3333	2
	zj	3	5	0	-1.5	-1	1	36

MAXIMIZATION

Cj	Basic Variables	40 X1	30 X2	0 slack 1	0 slack 2	0 slack 3	Quantity
							(untitled) Solution
Iteration 1							
0	slack 1	2	3	1	0	0	60
0	slack 2	0	2	0	1	0	30
0	slack 3	2	1	0	0	1	40
	zj	0	0	0	0	0	0
	cj-zj	40	30	0	0	0	
Iteration 2							
0	slack 1	0	2	1	0	-1	20
0	slack 2	0	2	0	1	0	30
40	X1	1	0.5	0	0	0.5	20
	zj	40	20	0	0	20	800
	cj-zj	0	10	0	0	-20	
Iteration 3							
30	X2	0	1	0.5	0	-0.5	10
0	slack 2	0	0	-1	1	1	10
40	X1	1	0	-0.25	0	0.75	15
	zj	40	30	5	0	15	900
	cj-zj	0	0	-5	0	-15	

GRAPHICAL SOLUTION

(untitled)

X2

Constraints

Isoprofit Line

8.,2.

10   12

X1

Corner Points

X1	X2	Z
0	0	0.
0	6	72.
10	0	90.
8	2	96.