

MAX 500 X1 + 450 X2  
 SUBJECT TO  
 TIME) 6 X1 + 5 X2 - 180 T <= 60  
 STORAGE) X1 + 2 X2 + 15 T <= 15  
 DEMAND) X1 <= 8  
 THETA) T = 0  
 END

LP OPTIMUM FOUND AT STEP 3

OBJECTIVE FUNCTION VALUE

1) 5142.8570

VARIABLE	VALUE	REDUCED COST
X1	6.428571	.000000
X2	4.285714	.000000
T	.000000	.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
TIME)	.000000	78.571430
STORAGE)	.000000	28.571430
DEMAND)	1.571429	.000000
THETA)	.000000	13714.290000

NO. ITERATIONS= 3

RANGES IN WHICH THE BASIS IS UNCHANGED:

VARIABLE	CURRENT COEF	OBJ COEFFICIENT RANGES	
		ALLOWABLE INCREASE	ALLOWABLE DECREASE
X1	500.000000	40.000000	275.000000
X2	450.000000	549.999900	33.333330
T	.000000	INFINITY	INFINITY

ROW	CURRENT RHS	RIGHTHAND SIDE RANGES	
		ALLOWABLE INCREASE	ALLOWABLE DECREASE
TIME	60.000000	5.500000	22.500000
STORAGE	15.000000	8.999999	2.200000
DEMAND	8.000000	INFINITY	1.571429
THETA	.000000	.025287	.000000

rhs

2

MAX 500 X1 + 450 X2  
 SUBJECT TO  
 TIME) 6 X1 + 5 X2 - 180 T <= 60  
 STORAGE) X1 + 2 X2 + 15 T <= 15  
 DEMAND) X1 <= 8  
 THETA) T = 0.0253  
 END

LP OPTIMUM FOUND AT STEP 2

OBJECTIVE FUNCTION VALUE

1) 5489.6120

VARIABLE	VALUE	REDUCED COST
X1	8.000000	.000000
X2	3.310250	.000000
T	.025300	.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
TIME)	.002750	.000000
STORAGE)	.000000	225.000000
DEMAND)	.000000	275.000000
THETA)	.000000	-3375.000000

NO. ITERATIONS= 2

RANGES IN WHICH THE BASIS IS UNCHANGED:

VARIABLE	CURRENT COEF	OBJ COEFFICIENT RANGES	
		ALLOWABLE INCREASE	ALLOWABLE DECREASE
X1	500.000000	INFINITY	275.000000
X2	450.000000	550.000000	450.000000
T	.000000	INFINITY	INFINITY

ROW	CURRENT RHS	RIGHTHAND SIDE RANGES	
		ALLOWABLE INCREASE	ALLOWABLE DECREASE
TIME	60.000000	INFINITY	.002750
STORAGE	15.000000	.001100	6.620500
DEMAND	8.000000	.000786	8.000000
THETA	.025300	.441367	.000013

MAX 500 X1 + 450 X2  
 SUBJECT TO  
 2) 6 X1 + 5 X2 - 3 T <= 60  
 3) X1 + 2 X2 + T <= 15  
 4) X1 <= 8  
 5) T = 0  
 END

LP OPTIMUM FOUND AT STEP 3

OBJECTIVE FUNCTION VALUE

1) 5142.857

VARIABLE	VALUE	REDUCED COST
X1	6.428571	0.000000
X2	4.285714	0.000000
T	0.000000	0.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	0.000000	78.571426
3)	0.000000	28.571428
4)	1.571429	0.000000
5)	0.000000	207.142853

NO. ITERATIONS= 3

RANGES IN WHICH THE BASIS IS UNCHANGED:

VARIABLE	CURRENT COEF	OBJ COEFFICIENT RANGES	
		ALLOWABLE INCREASE	ALLOWABLE DECREASE
X1	500.000000	40.000000	274.999969
X2	450.000000	549.999939	33.333332
T	0.000000	INFINITY	INFINITY

ROW	CURRENT RHS	RIGHTHAND SIDE RANGES	
		ALLOWABLE INCREASE	ALLOWABLE DECREASE
2	60.000000	5.500000	22.499998
3	15.000000	8.999999	2.200000
4	8.000000	INFINITY	1.571429
5	0.000000	1.000000	0.000000

MAX 500 X1 + 450 X2  
 SUBJECT TO  
 2) 6 X1 + 5 X2 - 3 T <= 60  
 3) X1 + 2 X2 + T <= 15  
 4) X1 <= 8  
 5) T = 1.01  
 END

LP OPTIMUM FOUND AT STEP 2

OBJECTIVE FUNCTION VALUE

1) 5347.750

VARIABLE	VALUE	REDUCED COST
X1	8.000000	0.000000
X2	2.995000	0.000000
T	1.010000	0.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	0.055000	0.000000
3)	0.000000	225.000000
4)	0.000000	275.000000
5)	0.000000	-225.000000

NO. ITERATIONS= 2

RANGES IN WHICH THE BASIS IS UNCHANGED:

VARIABLE	CURRENT COEF	OBJ COEFFICIENT RANGES	
		ALLOWABLE INCREASE	ALLOWABLE DECREASE
X1	500.000000	INFINITY	275.000000
X2	450.000000	550.000000	450.000000
T	0.000000	INFINITY	INFINITY

ROW	CURRENT RHS	RIGHTHAND SIDE RANGES	
		ALLOWABLE INCREASE	ALLOWABLE DECREASE
2	60.000000	INFINITY	0.055000
3	15.000000	0.022000	5.990000
4	8.000000	0.015714	8.000000
5	1.010000	5.990000	0.010000