LINEAR PROGRAM -- ORIGINAL DATA

Title: Knox Production-Mix Selection Problem

Maximize Subject to	x1 x1 4.00	x2 x2 5.00	x3 x3 9.00	x4 x4 11.00		
(1) (2) (3)	1.00 7.00 3.00	1.00 5.00 5.00	1.00 3.00 10.00	1.00 2.00 15.00	<= <= <=	15.00 120.00 100.00
Lower Bound Upper Bound Unrestr'd (y/n)?	0.00 infinity n	0.00 infinity n	0.00 infinity n	0.00 infinity n		

SIMPLEX TABLEAUS -- (Starting All-Slack Method)

Title: Knox Production-Mix Selection Problem

Iteration 1 Basic z (max) sx5 sx6 sx7 Lower Bound Upper Bound Unrestr'd (y/n)? Basic z (max) sx5 sx6 sx7	x1 x1 -4.00 1.00 7.00 3.00 0.00 infinity n \$x7 0.00 0.00 0.00 0.00 1.00	x2 x2 -5.00 1.00 5.00 5.00 0.00 infinity n Solution 0.00 15.00 120.00 100.00	x3 x3 -9.00 1.00 3.00 10.00 0.00 infinity n	x4 x4 -11.00 1.00 2.00 15.00 0.00 infinity n	sx5 0.00 1.00 0.00 0.00	sx6 0.00 0.00 1.00 0.00
Iteration 2 Basic z (max) sx5 sx6 x4 Lower Bound Upper Bound Unrestr'd (y/n)? Basic z (max) sx5 sx6	x1 x1 -1.80 0.80 6.60 0.20 0.00 infinity n	x2 x2 -1.33 0.67 4.33 0.33 0.00 infinity n Solution 73.33 8.33 106.67	x3 x3 -1.67 0.33 1.67 0.67 0.00 infinity n	x4 x4 0.00 0.00 0.00 1.00 0.00 infinity n	sx5 0.00 1.00 0.00 0.00	sx6 0.00 0.00 1.00 0.00
Iteration 3 Basic z (max) x1 sx6 x4 Lower Bound Upper Bound Unrestr'd (y/n)? Basic z (max) x1 sx6 x4	-0.13 0.07 x1 x1 0.00 1.00 0.00 0.00 0.00 infinity n sx7 0.58 -0.08 0.42 0.08	x2 x2 0.17 0.83 -1.17 0.00 infinity n Solution 92.08 10.42 37.92 4.58	x3 x3 -0.92 0.42 -1.08 0.58 0.00 infinity n	x4 x4 0.00 0.00 0.00 1.00 0.00 infinity n	sx5 2.25 1.25 -8.25 -0.25	sx6 0.00 0.00 1.00 0.00

Iteration 4	x1	x2	x3	x4		
Basic	x1	x2	x3	x4	sx5	sx6
z (max)	0.00	0.43	0.00	1.57	1.86	0.00
` x1	1.00	0.71	0.00	-0.71	1.43	0.00
sx6	0.00	-0.86	0.00	1.86	-8.71	1.00
x3	0.00	0.29	1.00	1.71	-0.43	0.00
Lower Bound	0.00	0.00	0.00	0.00		
Upper Bound	infinity	infinity	infinity	infinity		
Inrestr'd (y/n)?	n	n	n	n		
Basic	sx7	Solution				
z (max)	0.71	99.29				
` x1	-0.14	7.14				
sx6	0.57	46.43				
x3	0.14	7.86				