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Answer

100

max 22 120x + 100y 2x+2y 58, 5x+87 515, 720, 860. NOW using SI and SZ stock variable the standard form may 2 2 120x + 100y + 0.51+0.52 13 2x+2y+51+0,5228 5x+ 37 +0,5, +5,215

-1	XI	XL	34	52	BES
Z	-120	-100	0	0	6-
	2	2	1	0	8
51	_	1	0	1	115
52	5	13		1 31	IBF
	TX	42	31		. 26
	+-	1-21	0 8	2	1/2

52	5	3		-	BPS
	XI	42	31		360
-	0	-28	0	24	2
-	0	4/5	1	145	3
131	+-	3/5	0	11/3	

VII				10	BFS
1-1	VI	X2	52	10	430
	1	0	35	10	572
2	0	1	15/4	-1/1	13/1
YL	10	1	1-3/4	TYL	13/2
1	1	0	1		
1 01	1				1 2

Now alt 27,0 so optimal value is afferd. so the solution may = 430, 2 3/2, 2 = 5/2.

min m = 8m1+12m2 5-1 2W, +5W2 7, 120, 2W, +3W2 7, LOO w,, w, 7,0.

from the above table the solution of dual problemic

0

,0

W1=35, W2 = LO, MIN W- 43

Complementary stackness condition: 2° , 1° be the teasible solution of primed and dual problem will be optimal took if $(1^{\circ})^{T}(b-A 1^{\circ}) = 0$ and $(1^{\circ})^{T}(b-A 1^{\circ}) = 0$.

Here $1^{T} = (\frac{3}{2}, \frac{5}{12})$ $1^{T} = [\frac{2}{2}, \frac{5}{3}]$ $1^{\circ} = (\frac{35}{10})$, $1^{T} = [\frac{2}{3}, \frac{5}{10}]$ $1^{\circ} = (\frac{35}{10})$ $1^{\circ} = (\frac{35}{10})$

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