

new optimal point

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I I Xx satisfies new constraint 3xx is solved by Xx doesn't " " " 3501" is charge -X* is still Optimal > Z* remains same - If X* not satisfies new constraint > Z* changes En: Continuing previous example: The add construint in final tublian Writing final tableau as constraints $-2n_{1} + 5n_{3} + n_{4} + 2n_{5} - n_{6} = 6 - 1$ $11n_{1} + n_{2} - 18n_{3} - 3n_{5} + 4n_{6} = 4 - 2$ $3n_{1} + 2n_{3} + 2n_{5} + 1n_{6} = 106 - 3$ $+ 2 \cdot 04n$ Zman = 106 at Xx (0,4,0,6,0,0 1) Add 3n, +n2 + 3ny \le 20 Checking If XX satisfies above constraint 014+18=22 < 20 -> false Not Satisfying x x is not optimal Brith 2 + 3ng + ng = 20 - (N) we convert this in canonical form Replacing no in above from (2) 2 my from (1)

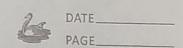
That gives us

=> -2n, +3n3 +ny+2n5-n6 =6

+1n1 +n2 -18m3 -7n5 +n6 = 4 -ue

Then optimal Soln constraintle to Simplier

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24	-2 0 5	4	-			
- 2	11 3 0 1 EID	F2)				
27	20210	106	-			
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m2	3 1 6 1 -1	2	-			
206	2 0 5 0 3 0 1	104				
0	1 De la	20/3				
my	73	43				
23	12 16 1 -3	4				
m6	177 177 0 0 1/2	302/3				
() P. 18	025 mest feet ins 100	3	77			
Zani						
	Cabital a	us ho				
y = (0,0,7,20,3,0, antening as no 4,0) Variable - he value						
the file was a sol						
ŁX	= 302/3 Donato ton 0 x x					
(2) Add a constraint 4n, + n2 +4ny >, 29'						
Solh was 10,4,0,6)						
thecking It so is satisfying 282,29 - Jake						
Now, Proting & finding the new optimal sol						
=) 9n1 + n2 + 4ny - n7 = 29						
=) -4n, -n2 -4ny +n7 2-29						
.6.	Turning this in cononical form					
	2 Same as aboue?					
-	and the second s					



			,				
	ni nz n3 ny n5 n6 n7	Ь					
my	26512-10	6.					
12	11 1 -18 0 -7 4 0	4					
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n2	0 1 4 0 4 4 11	=7)-					
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Remove this 'in Row							
Unbounded Soln of delivery the best little							
an Not Frasible Soln							
· consistentiales in .							
3	Adol a constraint on + 3n3 +ny -4.	ns - m	16 = -18				
Solh is (0,4,0,6)							
checking If som is satisfying -6 = -18,							
X* -> Not Satisfying this constant false							
Aster solving this, we get							

TRANSPORTATION PROBLEM OR MODEL.
Suppose we have some products at a wonehouse.

There is a origin & we have to
distribute the products to different locations
from Inventories -> Transport to different
locations (3 in this
case)

Zmem = 96 at (0,24,0,0,4,2)

There are diffrent limits in the locations
locations
1 P 3 1 1 1 0 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1
g School Bus -> takes soute for less petrol
2 more students reach home -> less
distance Route.
Origin: School Destination: Homes
imit on origin - No. of Students which can sit
imit on origin -> No. of Students which can sit
imits on Destinations -> 10 students on that
destination P., 5 on Dr,
6 on D3 etc.
Total Student which Hob In on Criain
= Total Student venich get down on dif
destinations
Supply & Demand transfer & Doll
ptimiration: (ast / ful) Time (Are to problem
ptimiration: (ast (fuel), Time (Aze to problem . Will take a noute where these will be minimized.
minimized.
o, the bus driver how to move in such a
way such that the demands is also
way such that the demands is also suffilled & cost is also optimized.
Di = location of Good Transport Dj (Pestination
A the sound beauty of a
Cost from Oi to Dj is given
(ost from Oi to Dj is given roal): Need to find a self to minimize the

Balance Transportation Problem > Supply = Demand

cost

 $Oi = D_{r}$