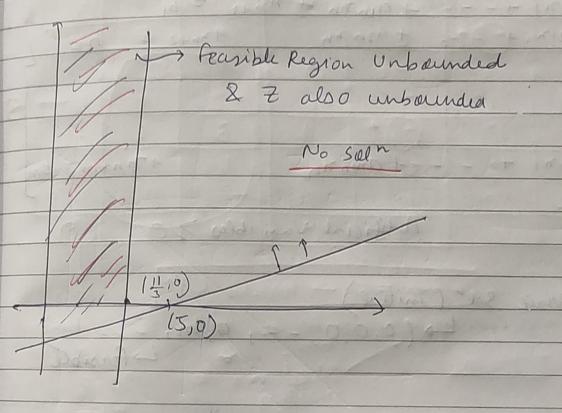
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2 Unbounded Seel"									
Man Z = 4n, +3n2									
subject to n1-6n2 55 3n1 511									
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· Ch. 10 1 Fam First 1 Adding Stouk Vaniaran									
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	177 (1 de la constitución de la			11-6n2	In:	1/25			
Subj. to m1-6n2 -1n3 = 5 3n1 1n9=11									
mi >10; i= 1/2,3,4									
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3 Infeasible Som - No optimum value for Z

Artificial Variables

Initial Comonicul form > to achieve - add

entificial variables

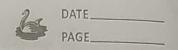
9111 + - - - + Grann = bi

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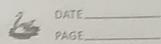
Already In Standard Josm

bi > 0 -> If not the multiply by - we Introduce Assisicial Variables

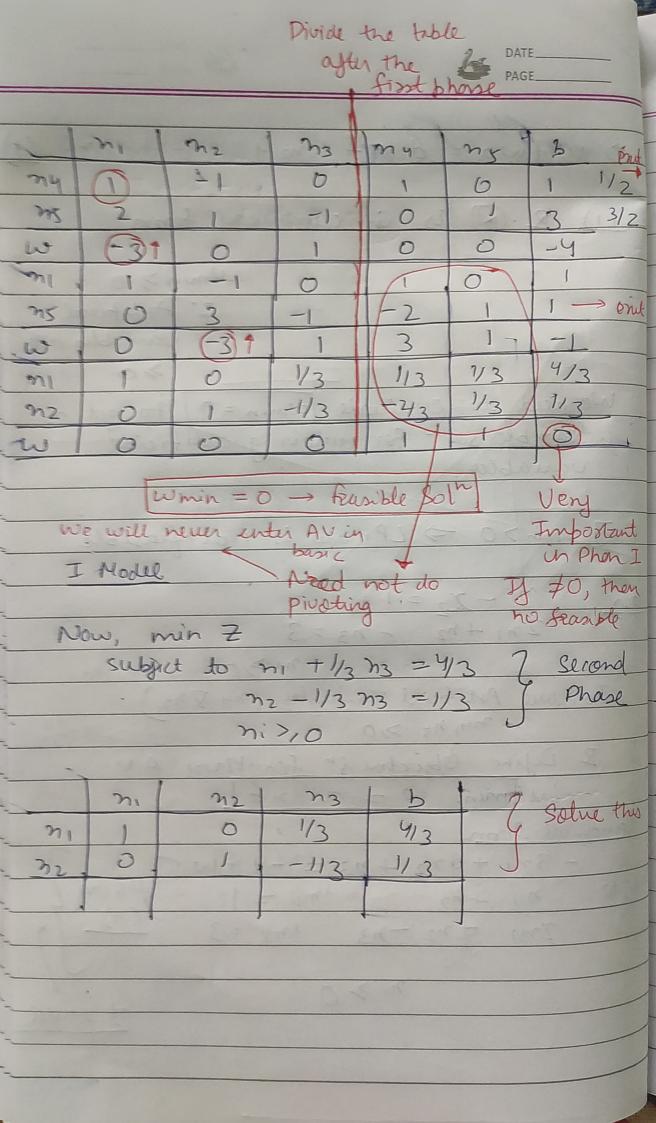
- tamnnn = bm



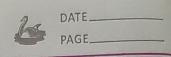
TINAN
Introduce Artificial Variables, nns, nnsm(0,0)
anni + + ann + nni = bi
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1 January 1 Mars of 1995
1 Established F/4
amini + + aminin + north = bm
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300 770
Basic Sal" (Initial) (0,0,0,,0,bi,bm) Lifewible
Lalon ohi
(0)0,0,,0,D),Dm)
reundle
1) Two-phase Method
Let we define an objective on
Min W = nn+1 1 nn+2 + f nn+m
Noto, -dini - dini dum
1 + nn+1++ nn+m
Basically adding all (w) = - wo terms of non-
where constraints base
$d_1 = -\left(\alpha_{11} + \alpha_{21} + \alpha_{m_1}\right) \text{After adoling}$
di = - (a·i + azi + + ami) allconst
(21,2,3,n
Wo = - b1 + b2 1 + bm)
Marin



3 Wtwo = dinitdznzt --- +dnnn (1) U) & P is in canonical form Umin >,0 : Astificial - Variables are We need to Evaluate wmin = 0 to get a fearible sol for smoving outificial variables 2) wmin > 0 => LP model is not feasible n1- x2 = 1 $2n_1 + n_2 - n_3 = 3$ 21= 11 - ni>101 Indroduce Astificial Variables (ny 2ns) ny, ns >10 & Define Objective 5" for these A.V. Let min. W= my-lns Comonical form -3n1+0n2+n3 = -4+w Jusing Subj to n1-n2 1ny -1 2m1 7n2-n3 1n5=3 ni > 0 I Model



90).	Min:	2 =	271-3	ha In	3 174	17 A		
-		Subj.	to	n, -2n2	\$-3 m	3-2n	4=3		
Subj. to $n_1 - 2n_2 = -3n_3 - 2n_4 = 3$ $n_1 - n_2 + 2n_3 + n_4 = 11$									
ni>10									
Ph	en-I								
A.U. ns, n6, w= ns+n6,									
-2n, +3n, +n, +n, = -1421w									
$n_1 - 2n_2 - 3n_3 - 2n_4 + n_5 = 3$									
n1-n2 +2n3 +ny 1n6=11									
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