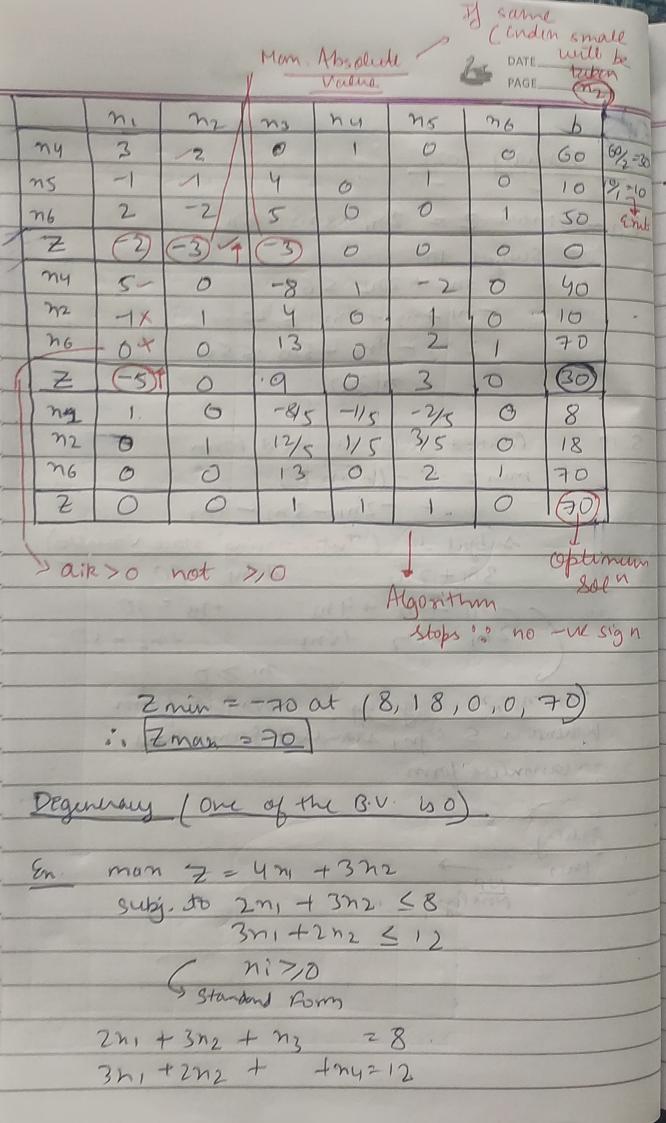


1705										
To be the the test of the										
20 January, 2021										
North Fill of the state of the										
$2n - man = 2n_1 + 3n_2 + 3n_3$										
Subject to										
$3n_1 + 2n_2 \le 60$										
$-n_1+n_2+y_{n_3}\leq 10$										
2 ni - 2nz + 5ns < 50										
(3) 0. 8 ni >0. M CHES =										
8 0 1/8-1/8-10 18										
Soll Convert into Standard Form										
min 7 = - (man 2)										
$= -2n_1 - 3n_2 - 3n_3$										
subject to (Introducing stack Variables)										
$3n_1 + 2n_2$ $+n_4 = 60$										
(-n1+n2+4n3 +n5=10										
$(2n_1 - 2n_2 + 15n_3 + n_6 = 50$										
ni ZD										
my, ms, no is giving a committed from										
hheneuer & sign, standard form has										
canonical form										
Roll Salva S										
Solving										
this NP SEE TO THE Page I THE TO THE PAGE										
11 2 5 a 2 + 10 8 a										
March Supering 8										



PAGE									
Soln We are solving this as man I not by									
min Z									
n, n2 n3 nu b									
n3 2- 8 1 0 8 8/2=4									
ny 3 2 0 1 12 13/2=4 1- mit									
Z 41 3 0 0 of For mon 7									
m3 0 - 5/3 1 1 -2/3 10 - 2we see									
n 1 2/3 0 0 1/3 4 finit the sign									
Z 0 1/31 0 -4/3 TG									
12 0 1 3/5 10 7									
n1 1 0 -2/5 3/5 4 9 Degnay.									
200 6 -215\$ -615 (16)									
78 0 6 , 23 m 301 Zmin = 16									
Deginerary - Etercitions increased 1: we									
got min = 216 brekene only									
in BV = 0)									
- 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2									
We terminate simplen for following conditions:									
1 Unbounded									
2) Alternate Optimus									
3) Infrasibility									
Althnoode Oftimum soln									
man 2 = uni + 3212									
subject to 8 n1 + 6n2 525									
$\frac{3n_1+un_2}{3n_1+un_2} \leq 15$									
ni70									
117)0									

Sn1 + 6 . 1 - 25											
		$3n_1 + 6n_2 + 4n_3 = 25$ $3n_1 + 4n_2 + 2n_3 = 15$									
ni >10											
1											
+		211	72	23	24	16	2	IN	4		
	n3	8	6	8/12	0	25		-> oriot.			
+	4	3	4	0	1	15	193		100		
	7	49	3	0	0	0	TEN				
1	الري		3/4	1/8	0	25/8	1-1-	6	-d		
	24	0	3/4	-3/8	11 >	45/8	- prid		18		
1	2	0	01	-1/2	0	100/8	10.0	100	15		
Z = 100 at (25,0)0,45											
	8 (8) 8)										
	The was East and sell and										
		n2=0, The sall cays									
		vie tripe n. & reglect									
		Continuing									
		But if we require a									
		Soln where we bave									
						a bu	uch 21	Rn2.	18		
		Enter of (Sol'y									
*	7			alterno					nun		
		الله	nz	23	124	Ь	11110	tende			
	Z	1 3	(01)	-1/2	0	100/8					
	21	7	0	2/7	-3/7	3)7	indu .	C (1)			
	2	0	1	-3/14	4/2	45/14	g)	as Vida	1		
	Z	0	0	-1/2	0		s on 100	18			
to the same of the											
1 15 Init have a hadden helother start 1020											

We don't have a problem whether slack variable?

= 25/4 at (5/9, 45) Altroate Optimum

brashically

Z=4n1+3n2=R 7 line overlapping with altre line. Every point on this line gives the same Optimum

Rigion for our soln

Problem 4

Simplen only Problem Coptiment Come points

In b/w points can also be i lised for optimum solh