

$$B = [A^{S}, A^{I}] = \begin{bmatrix} 2 & -6 \\ 3 & -3 \end{bmatrix}$$

$$A^{\mu} = \begin{bmatrix} 0 & 1/2 & -1/4 & 7/2 & 1 \\ 1 & 1/6 & -1/4 & 3/2 & 0 \end{bmatrix}$$

$$b^* = \begin{bmatrix} 6 \\ 1 \end{bmatrix} \qquad b = \begin{bmatrix} 6 \\ 1 \end{bmatrix}$$

$$[ly] \quad B^{-1}b = 1 \quad [-3 \quad 6] \quad [6] = b^{*}$$

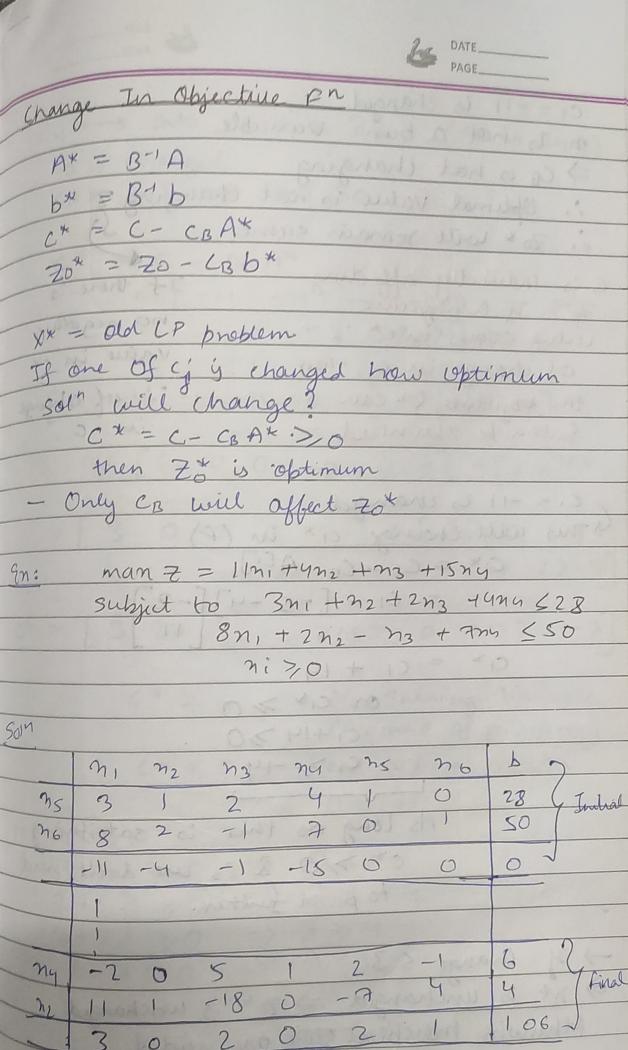
$$12 \quad [-3 \quad 2] \quad [15]$$

$$C - C_{B}A^{x} = [5003 - 2]$$

$$- [-25][0]^{12} - \frac{1}{16}$$

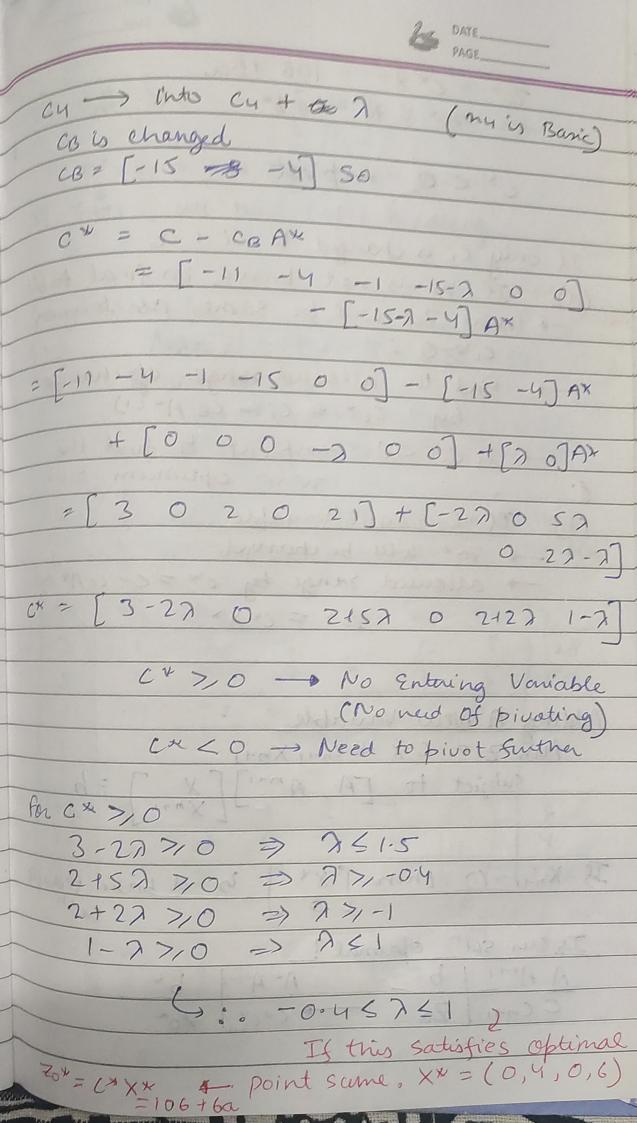
$$- [19^{3}]$$

177, 20 x = 20 - (Bbx



on is not a basic variable => CB is not changing i. 20 * will remain same. c is indirectly affecting If here is 20 , If a negative no negative value comes in ck :: value in ex of change in a, then · · · of charge the objective on can is some in a. Suther be oftimized. Grange CI* in (P)

CI* = CI - CB A EI] = (1-15-4)[-2] C1 = C1 + 19 01 (1 > 0 C1 71 - 14 0 As long as this is satisfying C* >10. 2 is vue dont need to pivot further. -> If Change 53 => not is unchanged => 70" is unchanged Otherwise more pivol steps are needed 1129 500 n3.





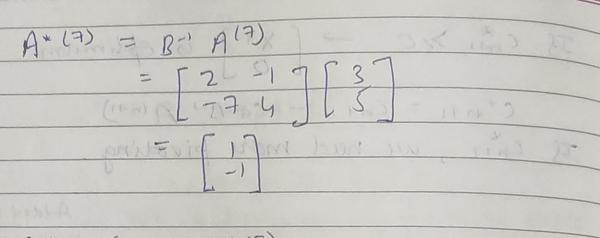
20x = C* X* = 106 16a co <0 -> pivot If only ci is changed to ci + a (a) If not is not basic in final tuble - then to will be same as long as by Ci* = Ci - (B A " L') -> If Cit <0 -> privat to find the Optimum soin (b) If no is Baric Variable - 70 + will be changed - allowed range by c* = c- CBA* >0 R-1 (SIS O RZO* = CXX * RS-8 C+ >0 -+ No Entering Variable Adding A New Variable Min Z = C·X f Cn+1 Xn+1 subject to [A, Ani][X] = b If Xn1,=0 then [x*] is a basic feasible Is our sol of dimal?

A AMI | b | A* AMMI | b*

C Cn 1 | Zo | C*C* | Zo*

HWW

				DATEPAGE					
Is com >10 - [XX] is optimum!									
C* n+1 = (n+1) - (B) (n-1)									
Is cois, we need more pivoting.									
Added a									
Same Example new youriable									
in: Noon Z = 11m, +4m +nz +15my (+12mg)									
Subject to									
3n, +n, +2n3 + 4ny +12ng < 28									
8n, +2n2 - 2n3 + 7n4 + 3n7 < 50									
mi >10									
Add ns, no as slack									
Solly									
	ni	n2	nz	ny	215				<u>b</u>
25	3	61319		790	18	1	510 3	3	28
ne	8	2	-(7		Lat 1	idan		50
-	-11	-4	-1	-15	0	0	0	1	0
-	1								
My -2 10 (2)									
27	-2	0	5			1	FI	12.	6 pp
-		1-	-18	0 -	7	×4	1		4 50
	3	0	2	0	2	51	ty		106
Editulated using									
1	Bz	4	17	BA	1 =	2	-17	6	formulas
1		7:	2	1	1	L-7	4	1	
(B=[-15-4]									



 $C_{7}^{*} = C_{7} - (BA^{*}(7))$

83 3 40 (12) - (211) - C+ 148

[xx] is not optimem as ny can be con be entered as it is negative.

n 1 n2 n3 n4 n5 n6 n7 , Initial Table (final Table) 7 34 0 2 -18 11 7 0 2 3 0 0 27 110 0 10 D 1/2

