

(2)	Max 7 = 2x, + 3x, +	6×3	
$S = 2x_1 + x_2 + x_3 \leq 5$			
	$3x_2 + 2x_3 \leq 6$	i x; 7, 0	
	Is the solution unique	e ? Justif.	
	La reconstruction	1	
doln	Introducing slack varias	Bles:	
	- Davidas-ca g		
$2x_1 + x_2 + x_3 + 1s_1 + 0s_2 = 5$			
$3x_2 + 2x_3 + 0S_1 + 1S_2 = 6$			
The new objective function:			
=	Max 7 = 2x, +3x2+	2x + 0s, + 0c	
		3 . 00/ 105	
	The simplex table:	To the last	
Ġ	2 2 6 6 0	0	
XB CB		S2 Si Retio	
S1 0	2 1 1 1	0 5 5	
S2 0	0 3 (2) 0	1 6 3	
Zj-Gj	-2 -3 (-k) o	70	
	7		
Ç	2 3 6 0 0	41	
x _B Ca	x1 x2 x3 \$1 52		
3,0	(2) -1/2 0 1 -	V ₂ 2 1	
23 6	0 3/2 1 0	1/2 3 -	
Zj - Y		3	
	12 3 6 0	0	
XB CB	x_1 x_2 x_3 x_5	S ₂ 5i	
$\frac{\chi_1}{\chi_1}$	1 -1/4 0 11	14 1	
73 6	3/2 1 0 V	2 3	
zj-g	0 11/2 0 1 5	The state of the s	

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	Page
	" all zi - cj > 0
	7 It is an entireised 100
	Also, Zj-cj=0 only for the basis variables & Unique solet/on.
	the basis variables & Unique and in
	July Sollation.
	The solution is:
	$a_1 = I$
	73 = 3
	So.
	Max Z = 2(1) + 3(0) + 6(3)
	= 20
8	