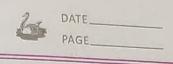
8 February, 2021	132 CO2
	7
In: man Z = 3ni + 5nz + 4n3	106
Subject to 4n1 + 12n2 + 15n3 = 90) -> y11
-n, +2n2 + 3m3 = 12 ->	42/
ni >10	
1914 0 50 1-21-1	Unrestricted
Dual: min Z = 90y, +12y2	75 W
Subject to 44, -42 >13	211
1241 + 742 7,5	
154, +342 >19	
J, y2 timestricted	161
Substitute this:	0 11
	0
$y_1 = y_1' - y_1''$ $y_2 = y_2' - y_2''$ $y_2'' - y_2''$	0
0 = 00 - 00 Journ	Can be
13 15 10 100 AL I LE MANUELLE LE	Solved
To solve and the	by
add Surplus	AN
Variable (y3,154,45)	A18A2
& to conunt in	
canonical form ine	
need A.V. A, Az, As	a little
So, to solve this, we need	
10 variables	
	1.30 11

Solve any one to get the solution of

	PAGE
So, solving primal	
my y 12 15 ms -1 2 3 1 Z -3 -5 -9 W -3 -14 -18 My 91 2 0 M3 -1/3 2/3 1 P -6 1 0 W -9 -2 0 M1 1 2/9 0 M3 0 2927 1 B 0 7/3 0 O O O Calculate A.V. pivoting So as to	my 75 b 1 0 90 0 12 0 0 0 0 0 0 102 1 -5 30 0 3 36 0 6 -30 1/9 -5/9 10/3 1/27: 4/77 4/99 2/3 1/3 56 1 1 1 0 W=0 Rocced to II - Phase But no - we value far entry i. Man Z = 456 at (10, 0, 46) 3 3 9
A CONTRACTOR OF THE PARTY OF TH	



Complimentary Slackness Theom man $Z = C \cdot X$ subject to $An \leq b$ No

Dual:

min $Z = b \cdot Y$ subject to $AT \cdot Y > C$ Y > 0problem respectively then

b. Yo - C. Xo = (b-Ano). Yo

the (ATYO-C). Xo If boxo b to = C Xo; => xo, yo are our optimal solutions: "man = min (Objective 5m) Let X * 8 y + be our optimal solus instead As these are our oftimal solvs, we home ino = byo (b-Ax*) Y * + (AT Y* - C) X* = 0 >>0 >>0 >>0 >>0 > Sum of two the no. is o only when both are zero