260 | - 4300 X1 = present value of a Shoch 25 December 2021 10:51 _ invoked anot. 200/- 5300/Sm X, 7,0 -1800 Unrestructed in bogn XI 700 Min Z = 2x1 -5x2 +4x3 = Max W = -2x1+1x2-43 $X_2 = -X_2$ $X_3 = X_3' - X_3''$ X2 7,0 X3 7,0, X5 7,0 $- \times_{1} - 3 \times_{2} - \times_{3} + \times_{3}^{1} - \times_{4} = \boxed{3}$

 $- \frac{1}{3} - \frac{1}{3} \frac{1}{2} - \frac{1}{3} \frac{1}{3} + \frac{1}{3} \frac{1}{3} - \frac{1}{3} \frac{1}{3} \frac{1}{3} - \frac{1}{3} \frac{1}{3}$

N, XZ, NS, 13, 13, 14, 13) 16 1



 $\frac{1}{2}$

x = | bz | m. Mxm A m $A'. \times = b \Rightarrow X_1$ Max Z = 11x1 + 18x2 + 23x5 Soo X1... X6 7,0 X1.1X1 X3) (X1.1X1, X4) X1=15-16-63 - 51.31 - 51.31 - 51.31 - 51.31 (X1, X2, X5) (X,,Y,, Xb) $X_1 + Y_2 - X_3 = 8$ $2X_1 - X_2 + 3X_3 = 1$ $A = \begin{bmatrix} 1 & 1 & -1 \\ 2 & -1 & 3 \end{bmatrix} \times = \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix}$ l: (8) Nome (A) = 2 put 3-2 vaniddes aus arts hay 2 you can solve hu Ax=b the other two

New Section 64 Page 2

X1+X2 = 0.10 4 ym can 2x1 -X2 = 11-3t the other two Let Xz : t be arbitrary $\begin{bmatrix} 1 & 1 & 1 \\ 2 & -1 & 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 & 1 & 1 \\ 1 & -1 & 2 \\ 1 & -1 & 2 \end{bmatrix}$ $\frac{2}{2}$ $\begin{pmatrix} \chi_1 \\ \chi_2 \end{pmatrix} = \begin{bmatrix} 1 \\ 2 \end{bmatrix} \begin{bmatrix} 1 \\ 1 \end{bmatrix}$ [2,2,1,8,0] - (1.8) [1.8,0,3.7] Max Z=(5x,+11x~ Max Z=(5x,+11x~

Max $z = 5x_1 + 2x_2 + 3x_3 - x_4 + x_5$ About $z = 5x_1 + 2x_2 + 2x_3 + x_4 = 8$ And $z = 7x_3$ And $z = 7x_4$ And z =

Identify 2 bane variette Vanh (A) = Z Skepl x_{4} x_{5} (0,0,0,8,7) (2-1) $(x_2 = 0)$ $(x_3 = 0)$ $x_4 = 8$ (X2:0) (X3:0 Jump q 3 winds] brotis X2=133 70, X2 = 6, X5-2=5 mb X1=3, X2=0, X3=0, X4=5, (X5 12 0, X50, X4 = 8 7/2