his060 Greated with Doceri

x= Would like the simplest basis of the vow space of f , space is unaffe i IN2 - ds [T3] Created with Doceri

y row space by G.E. So simp 62 0034 so to rew canonical 

row space **1**= The orland space of a mating is spanned by its columns: h here م reate**8** C 3

Theorem: the dimension of the row space = dimension of the column space = "rank" of A To Find simplification space use GE. to row a nonical on AT 

 $\begin{bmatrix}
0 & 0 & 0 & 3 & 4 & 1 \\
0 & 0 & 2 & 5 & 6 & 2 \\
0 & 0 & 2 & 7 & 6 & 3 \\
0 & 0 & 0 & 0 & 0 & 0
\end{bmatrix}
\begin{bmatrix}
0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0
\end{bmatrix}$ 1-21=22) Zill chap & IAI  $\begin{vmatrix} a_{12} \\ a_{12} \\ a_{11} \\ a_{12} \\ a_{11} \\ a_{22} - a_{12} \\ a_{21} \\ a_{21} \\ a_{22} \\ a_{12} \\ a_{21} \\ a_{21} \\ a_{22} \\$ Created with Doceri

 $\begin{array}{c} \alpha_{11} \, \alpha_{22} \, \alpha_{33} \\ = + \, \alpha_{12} \, \alpha_{23} \, \alpha_{33} \\ + \, \alpha_{13} \, \alpha_{21} \, \alpha_{32} \end{array}$ - au azz azz - a12 a21 a33 4×4: no easy frick 31 Theorem : u[A] = 0 Ax = b for bas = b  $e \cdot s : b = 0, A = 0$ 

UPH #O ATX = B has exactly one unique solution ("solution "-> Solution vector") Do not use on a computer Created with Doceri