Lecoz: Solving Ax=0, Pivot usuiables, Spetial Solvitanis.

Computing the mollspace (Ax=0)

Pivot vosiables - face vosiables.

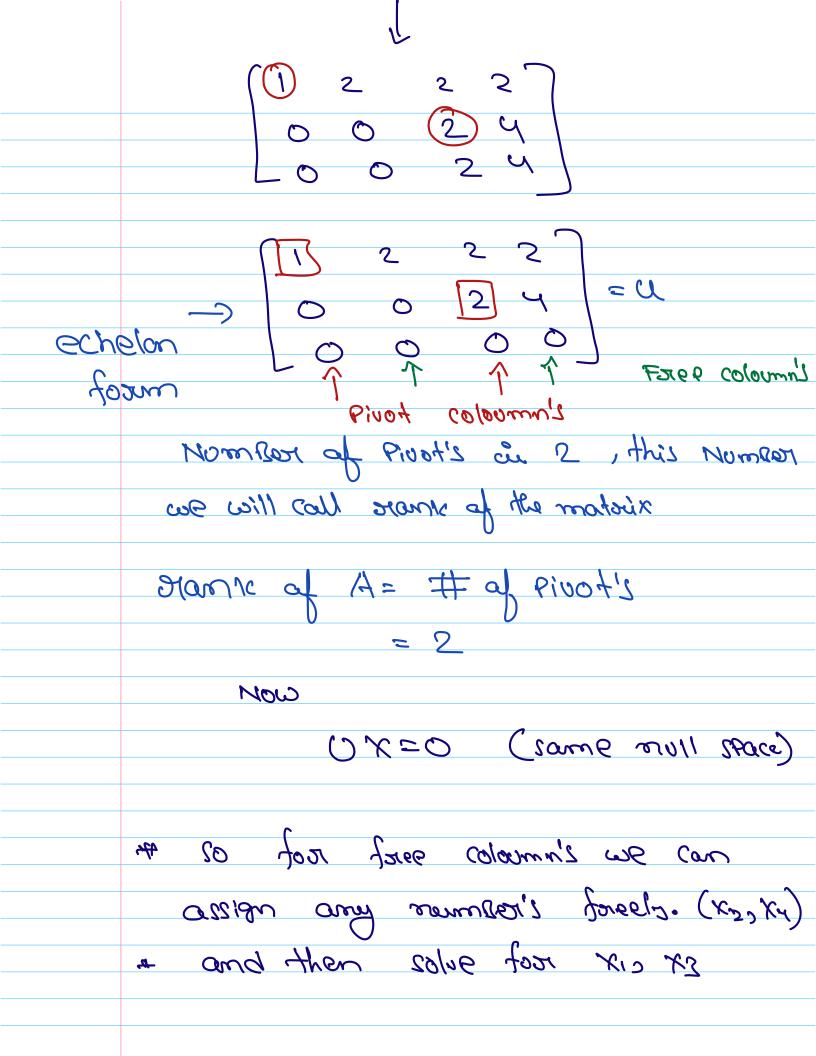
Special solution's - 277ef (A)= R

while we are doing elimination, we are not changing Mull space,

O=x A enivires are sev

after operation's Rx=0

=> we are changing coloumn space.



$x_{1} + 2x_{2} + 2x_{3} + 2x_{4} = 0$ $x_{2} + 4x_{4} = 0$ $x_{3} + 4x_{4} = 0$ $x_{4} = 0$ $x_{5} + 2x_{5} + 2x_{5} + 2x_{4} = 0$ $x_{7} + 2x_{5} + 2x_{5} + 2x_{4} = 0$ $x_{1} + 2x_{2} + 2x_{3} + 2x_{4} = 0$ $x_{2} + 2x_{5} + 2x_{5} + 2x_{4} = 0$ $x_{1} + 2x_{2} + 2x_{3} + 2x_{4} = 0$ $x_{2} + 2x_{3} + 2x_{4} = 0$ $x_{3} + 4x_{4} = 0$ $x_{4} + 2x_{5} + 2x_{5} + 2x_{5} + 2x_{4} = 0$ $x_{5} + 2x_{5} + 2x_{5} + 2x_{5} + 2x_{5} = 0$ $x_{7} + 2x_{5} + 2x_{5} + 2x_{5} = 0$ $x_{7} + 2x_{5} + 2x_{5} + 2x_{5} = 0$ $x_{7} + 2x_{5} + 2x_{5} + 2x_{5} = 0$ $x_{7} + 2x_{5} + 2x_{5} + 2x_{5} = 0$ $x_{7} + 2x_{5} + 2x_{5} + 2x_{5} = 0$ $x_{7} + 2x_{5} + 2x_{5} = 0$ $x_{7} + 2x_{5} + 2x_{5} = 0$ $x_{7} + 2x_{5} + 2x_{5} = 0$

Moll space contain's exactly all the

Constraint of the special solution's.

=) those is one special solution for

every free voidable

=) of of = nank= # Pivots

The coloumn's

=> m-x = free coloum's

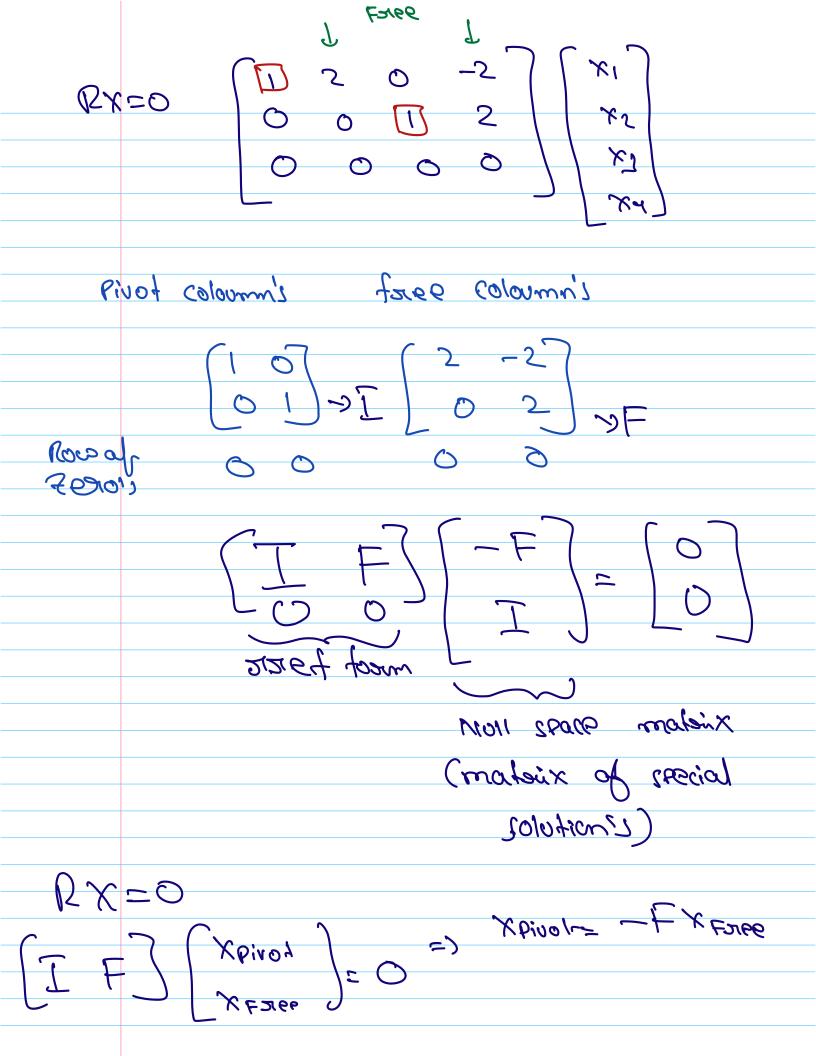
B= siegniseg som echelon form

Smo snago spare may the form

below the Pivots.

Ax=0 Cx = 0 Cx = 0

BX=0



and Earl