

 $\sigma = \begin{pmatrix} 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 2 \\ 0 & 0 & 1 & 3 \end{pmatrix}, \quad \Gamma u' = \Gamma u - \Gamma u - \Gamma u$ tunce, weight, n = 1 mulos bro \$2 = 2 (instant) = Section 1.2 Chaussian Elimination A matrix is easied said to be in reduced now echelon form if the following properties hold =>

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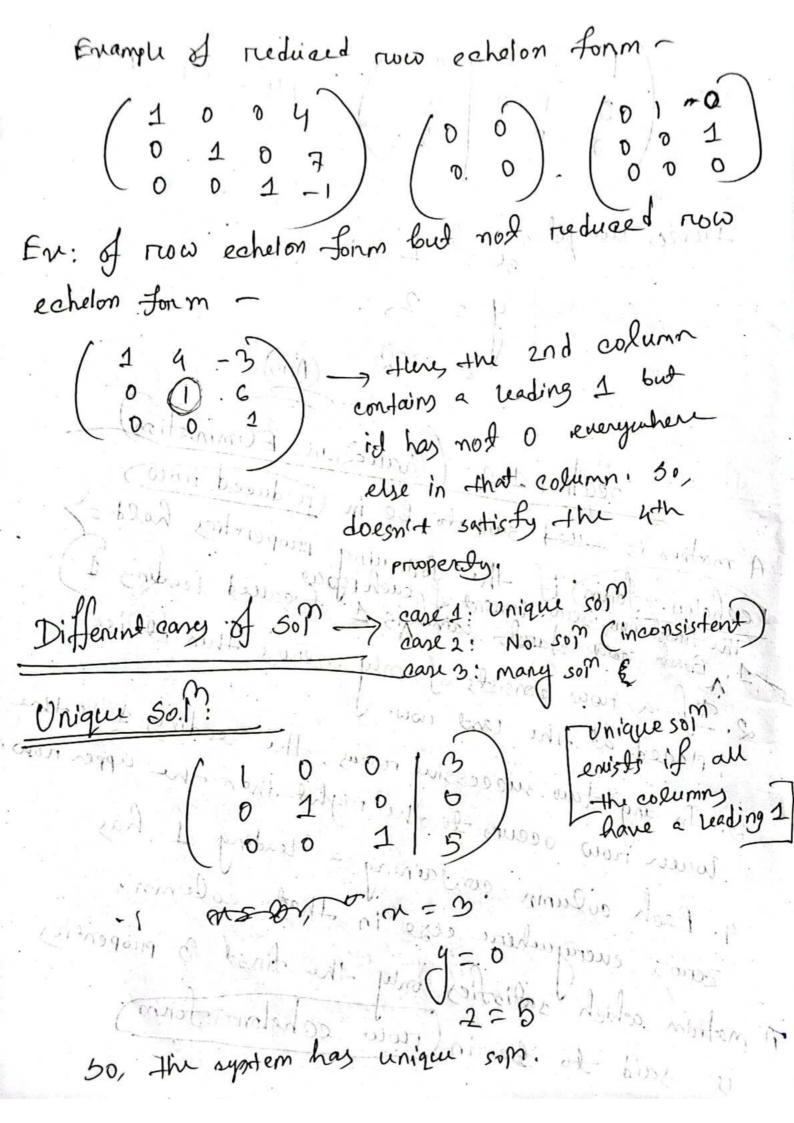
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To any thus successive rows, the right than the upper now. 4. Each avlumn avontaining a leading I has Zeros everyachera else in that column. · A matrin which sadisfies only the first 3 properties is said to be in (rum echelon form)



Costic ventical (No son. Here, From the last now, we see that 0.n+ 0.y+ 0.2 = 1 values of vsy, 2. So, the system has no so) on, we say that the system is inconsistent. many son many son occurry when I on more nows The corenerponding system = m+ 320 = -10 50, there are 2 eggs in 13 unknowers. 50, (3-2) = 1 free variable. We see that 2 ean be truded as free variable. NB: Cata leading 1 Am CHON Free rawable

307 Wb 2= \$; 2 EB, y = 2 + 42 = 2 + 43Assigning specifie values to to, our can get various soils. For eg, $t = 0 \Rightarrow x = -1, y = 2,$ $t = 1 \Rightarrow x = -4, y = 1$ There is no sound one of the sound of the so Another eq. of many som. There is 1 eq. in 3 unknown, 50, (3-1)=2

There is 1 eq. in 3 unknown, 50, (3-1)=2

True ravable. Ld, 2 you by 2 be free

variables. Ld, y=5/1 2=5/1 1=0