Samuel Petit CS1003 Honework 11 Q1. I will first turns the system of linear equations to the form A2=6. $\begin{pmatrix} 1 & 1 & 1 \\ 2 & 1 & 0 \\ 1 & 1 & 3 \end{pmatrix} \begin{pmatrix} 2 \\ 3 \\ 3 \end{pmatrix} = \begin{pmatrix} 2 \\ 3 \\ 3 \end{pmatrix}$ (et's row evedle the augmented matrix (A:b). (3 3 3 ?) I will now turn this matrix into R2-)R2.2R1 (0-1-2-1)R3 R3-)R3-R1 (0-2-4-2)R3 R2 (0.121)
R3 (0.2-4-2) R1 => R1-R2 (0 -1 1) R3-> R3+2R2 (0 1 2 1) Cet's now solve the system: 3 = k-1we have: by deciding De = t where t is any real number y=1-23=3-2+. and se = t.



