Ch3. Systems of linear equation -> Solving a linear equation 13 Echelon Form to solve the systeme: .... Pun + V, 12 + W, 2 = b1 1 U2n + V2y + W12 = 62 (Us x + V3y + w32 = b3 . write the augmented matrix: u, v, w, 1 b, U2 V2 W2 | b2 Uz Uz Wz 1 bz 2. Transform the matrix to row exhelon form or reduced row echelon form using row operation 3. Find value of (b1, b2, b3)=> solution . The systeme can have: one unique solution infinitely many solution (0000) consistent no solution (ood (a) { inconsistent N.B II rank: nb of leading 1 , r=n => unique solution - r < n = sinfinitely many solution

decomposition decomposition systeme using U decomposition of A