Elementary Transformations + key to solving a system of lin. eq. ; keep solution set the same, but transform the equation system into simpler form. - exchanging lequations (rows in matrix) - multiplying an equation (row) by a constant NER - addition of 2 equations (rows) == Example -2x1 + 4x2 - 2x3 - x4 + 4x5 = -3 4x1 - 8x2 + 3x1 - 3x4 + x5 = 7 x1 - 2 x2 + x3 - x4 + x5 = 0 - 3x4+4xs = 4 x. - 2x1 0 SWAR -4R1 183 4 -2 -1 +2R, -2 0 -3 4 -12, ROW- ECHELON x1-2x2 + x3 - x4 +x5 = 0 ×3 - ×4 + 3×5 = -2 0 1 -1 3 -2 0 0 1 -2 X4-7x5= 1 0= 111 Particular Solution (a=-1) General Solution XI XL 1, 21, 22 ER -1 + 21 2 X4 - Plyot: the leading coefficient of a you (first noneuro from left) is the plat and always strictly to the right of the pirot above it.