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Fxample (*) continued Split AER into invertible BERMXM and NERMX (n-m) split columns columns do not Lave to be consecutive For example, A = | 1 2 3 0 | -> B = | 1 2 | N = | 3 0 cleck if invertible The variables x and x corresponding to B and Nare called basic and nonbasic variables As B is invertible, the basic variables suffice to get Ax = 6 = BxB. The columns of B form a basis of the column space

The nonbasic variables can be set to 0, XN = 0, and will be the additional n-m active constraints that we need to complement the mactive equality constraints => Write Ax = 6 as BxB + N·xN = 6 and solve for x3=B-16 =0 basic solution (XB $x_3 = 1 + 2 + 7 + (6) = 1 - 1 + 2 + (6) = (2)$ 15 x = 0, the solution () is basic feasible, otherwise basic in seasible basic seasible solution => vertex

