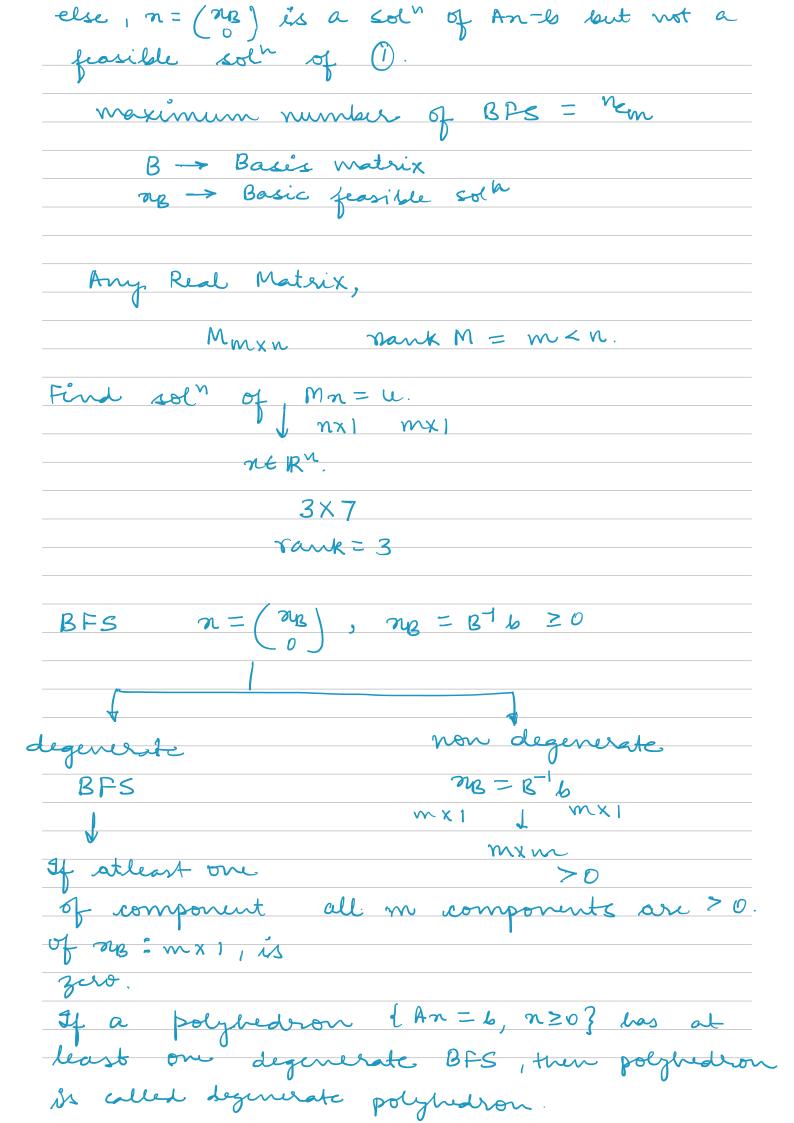
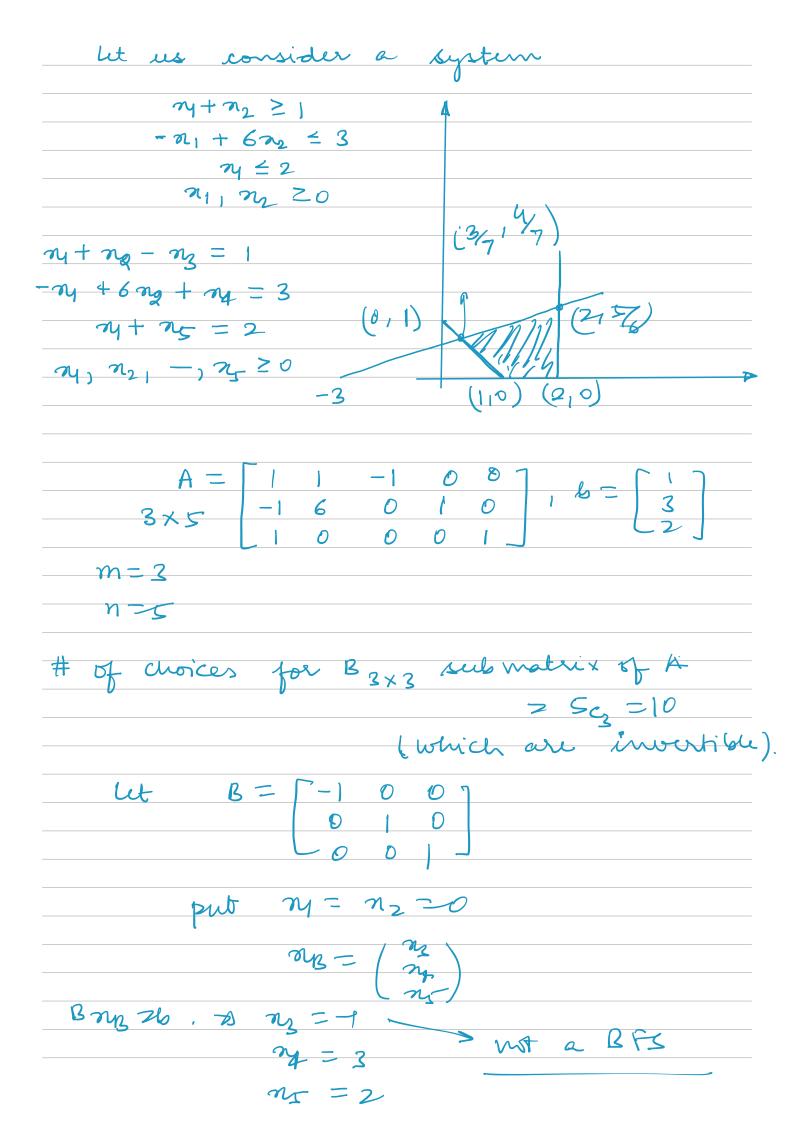
ny 20.

Slack Variable Surplus Variable). Assume A: mxn, m < n. Rank A = m (full row rank) -> There are n-m columns of A which are not part of B. B.R.] for those columns in R, put ni = 0. out of which n-m=0 Remaining m x 1

call it by np: m x 1. An = 6 (7) Bng = 6 (7) ng = B - 6 If no ≥0 then n= (nB) is called BFS of (1).





Let
$$B = \begin{bmatrix} 1 & 0 & 0 \\ -1 & 1 & 0 \end{bmatrix}$$
 invarible

$$n_{B} = \left(\begin{array}{c} n_{1} = 1 \\ n_{4} = 4 \\ n_{5} = 1 \end{array} \right)$$

von degenerate BFS.