

$$S = \begin{cases} An = b \end{cases}$$
 $n \ge 0$ 

Two extreme points  $n_1$ ,  $n_2$  of S are adjacent iff every  $\hat{n}$  on the line segment joining  $n_1$  and  $n_2$  has a unique convex combination in terms of  $n_1$  &  $n_2$  or a unique convex combination of EP's of S.

In other words, in terms of BFS,

my and my are adjacent EP of S. iff
the set of column vectors

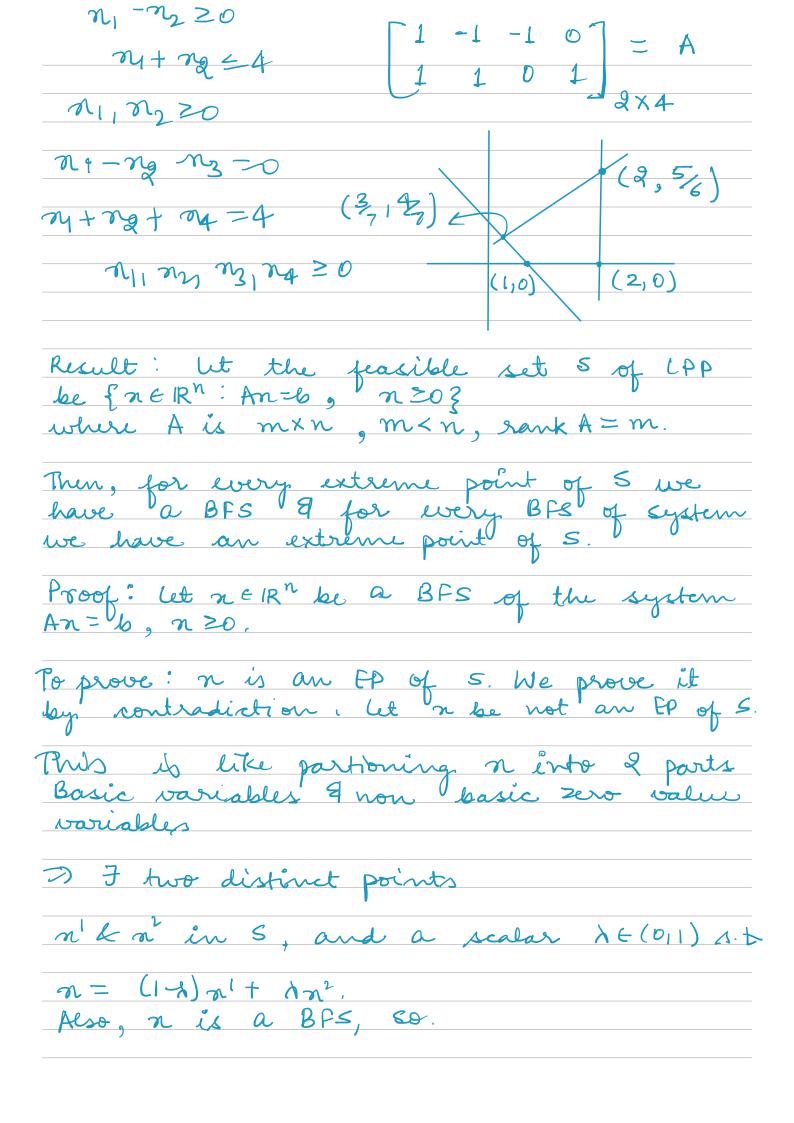
és of Cardinelity (n-1).

In terms of Basis variables ng or ng.
One see only one swap or exchange of basic variable.

 $B^2 = [n_1, n_2]$ 

8,= [sh's2]

 $(2_{1}2)$   $(4_{1}0)$ 



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Fa basis matrix Bmxm invertible
      u = \left[ ub = 0 \right] (u - m) \times 1
 Au, n = (1-1)n^{1} + 4n^{2}.
 (indices l'order in which we write
LHS n & RHS n', n² are maintained.)
where m_{\rm g} = m_{\rm X}, m_{\rm g}^2 = m_{\rm X}
subvectors n' \not\ni n^2 corresponding to the indices of n_B in B \not\ni in the same order component.
(indices 2 order in which we write LHS n
& RHS n', n' are maintained)
      1) me = (1-1) me 1 + 1 me 2
              0 = (12) ng1 + 1 xg2
                           20 (given in
                     ·· (OCACI) condition)
So this eq = 0 only When individue in nos are zero.

thus gives ng' = 0 k ng² = v
multiply both side by B.
   B ng = (17) B ng + 2 B ng2.
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