Algoritmal propplex deal Refoare la / examen o Fre pb 0  $\begin{cases} min \ e^{T}x \\ Ax = 6 \\ x \ge 0 \end{cases}$ rang A = 0, ACR men Pasos for Bo bata aleal admissibilità, cale xº, 7°, 2, -cj. +j=1,0 Pas 18 (criterial de option) Notion an B= { ic B / 3: 6 < 0} Jaca B = = = (x,0) - 801, ophma 8007 Pasas Saca & ce B- al yil 20 + j=1,0

po (1) nu are solution admissibile 800?

De coo (and a land hand) Pas 38 (selimbares basei) Alegen re B\_ 8 april « e R en onteriel de l'estre din borta, respectiv au enteriel de intrare en borta. => > B = BUSES1 4rh Calcular x , z , z - e; , j=1,1 . Mergen la pasul 1 (2) Sup cTx (1) onf ctx Ax = 6Ax= 6  $x \ge 0$ x20 B borta dual admissibilità 25 - c <0 + j=1,n Contenul de respre den  $\overline{x}_r^6 = mn \ \overline{x}_i^6 \longrightarrow la fel$ Criterial de intrare in boxa Ke R ai to-cj you jar you determinarea unei bose dual admissibile pt pb (1)

-1-

Fix B o bede formata au m adanne independente de matricei A Fix R = 4 i c R / 23-c; >03

Addugain respecties  $x_0 + \sum_{j \in \mathbb{R}} x_j = H$ , unde  $H \ge 0$  f. mare sau puten addega restrictée  $x_0 + \sum_{j \in \mathbb{R}} x_j = H$ 

A=(3 R)

Fix 
$$pb$$
 (1) (af  $c_1^T \times_1$  under  $\times_1 = \begin{pmatrix} x_c \\ x_c \end{pmatrix}$ ,  $A = \begin{pmatrix} 0 & e^T \\ 0 & e^T \end{pmatrix}$ 
 $A_1 \times_1 = b^1$  under  $\times_1 = \begin{pmatrix} x_c \\ x_c \end{pmatrix}$ ,  $A = \begin{pmatrix} 0 & e^T \\ 0 & e^T \end{pmatrix}$ 
 $A_1 \times_2 = b^1$ 
 $A_2 \times_2 = b^1$ 

Var de basis  $a_1^2$   $a_2^2$   $a_3^2$   $a_4^2$   $a_4$ 

Subjecte de ex
1) Forme de pt de aptimitar limara - Aplication
Let 8' notati
- sol, admissibile notaties x3, x3, x3, yj, +3cj
- sol optima
- besta primal/dual admissibile
2) <u>Veckon</u>
$x = \begin{pmatrix} x_1 \\ x_2 \\ \vdots \\ x_n \end{pmatrix} \qquad x^{T} = \begin{pmatrix} x_1 & x_2 x_n \end{pmatrix}$
· le inseamna coloane (vector) independente si borra formata ce co co
3) - pet extrema! - voirt - solutie de bata : Depiniti , exemple (aplicati)
4) Lema substitutiei - enent
5) Lema lui Farcas - aplicații (într-un exemplu) - def de curs
si teoremele care ount consecunte
6) Solectio degenerate - demple
Restul cursuntor - enumeri de teoremo
lex: the alg simplex primal (dual), the chiala a egalitation, the fundament a etc.)
Gramen 3p x subsect.  1) subsect teache as most matter  1) subsect teacher as most matter  2) 75 as aligned as most matter as most matter  1) subsect teacher as most matter as most
1 pet ofice of 8 mb panett 1 april 5 maples - points (saw)
+ 1p seninar (3) desal
3) 76 en teorema slata a ecortunitar Be complementare