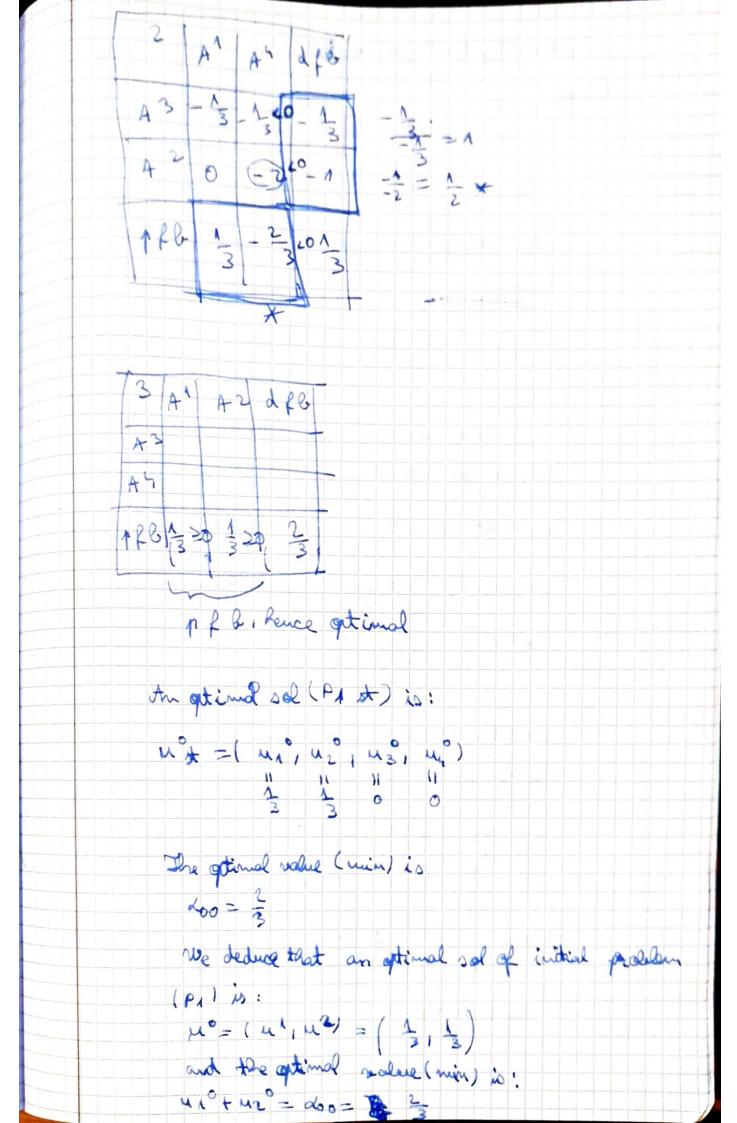
Geninas a Matrice gauss Est 1 Solve the game whose pay - off matrice is:  $G = \begin{pmatrix} 2 & 0 \\ -\Lambda & \Lambda \end{pmatrix}$ Solution Forst we compute w and w (the socalled lover value and upper value of the game) dr = min { 2,04 = 0 4 = 7 ru = mase {didit= d2 = min {-1,1}=-1 B1 = mare { 2, -1} = 2 } = num (B1, B2) = 1 B2= mass(0,14=1 According to L10 we know that: 0 = nu < no < no = 1 hence we & to, 1] lince w + res, the game has me saddle points. Sees, Theorem 11. 1. does not apply On the other hand, que are not sure wether ( ne just anow that No E TO, 17) In order to see Diagrem 11.2, which requires that the game's value is positive (>0), we will add a conservent constant & EIR to all elements of C, and that

41,4220

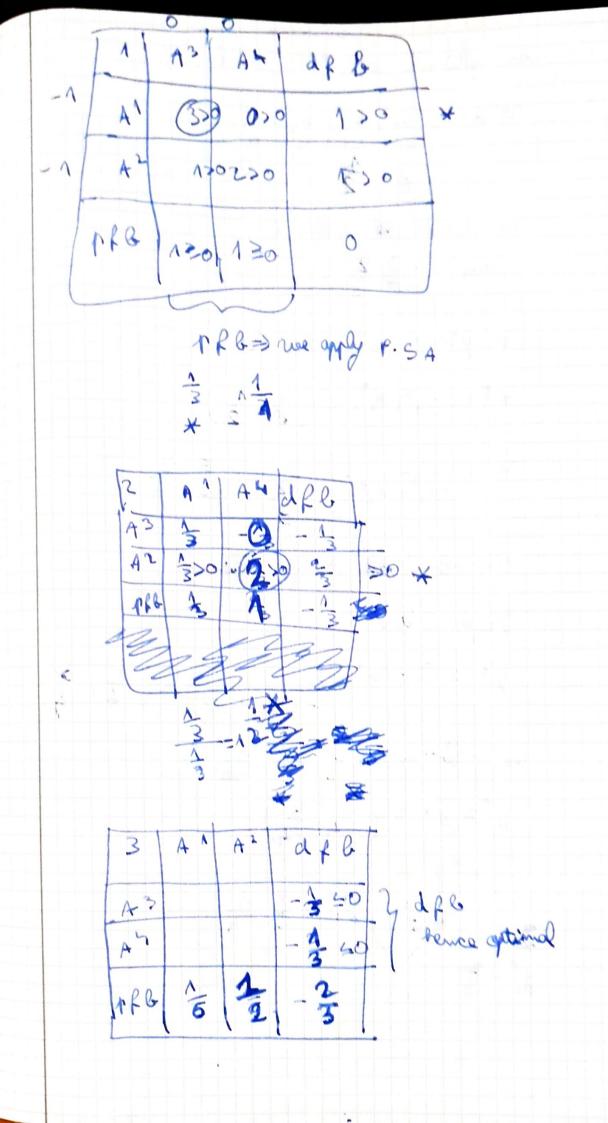
these we solve (P1) and (P2) In order to use the SIMPLEX Algorithm. we have to transform (P1) and (P2) is standard from (P1 st) diminite ugtuz 341 - M3=1 (=) 41+242-M=1 MA , ... 1 M4 20 diminise with -341+43=-1 -M1-2M2+M4=-1 MA, ... , M4>0 Minimise - 24 - 202 (Pz st) 3 04+102+23=1 202 + 24 = 1 101,...1 2h≥0

Set in solve (P1 st)

$$n = h_{i} = 2$$
,  $C = (e_{1}, c_{2}, c_{3}, c_{4})$ 
 $A = \begin{pmatrix} -3 & 0 & A & 0 \\ -A & -2 & 0 & A \end{pmatrix}$ 
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 $A = \begin{pmatrix} -4 & 0 & A & A & A & A \\ A & -2 & -A & -A & -A & -A \end{pmatrix}$ 
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 $A = \begin{pmatrix} -4 & 0 & A & A \\ A & -2 & A & -A \end{pmatrix}$ 
 $A = \begin{pmatrix} -4 & 0 & A & A \\ A & -2 & A$ 



toording to theorem = 11.2, neethorse. 20 - 1 = 1/3 = \$ 3/2 Jamash: w= 3 Et1, 2] An optimal strategy of Player 1 is:  $\left[\hat{3}\circ - \hat{3}\cdot u^{\circ}\right] = \frac{3}{2}\left(\frac{1}{3}, \frac{1}{3}\right) = \left(\frac{1}{2}, \frac{1}{3}\right)$ In what concerns the initial game with the pay - off motivise C, use harse:  $w = \frac{3}{2} - 1 = \frac{1}{2} = \frac{1}{2$ In optimal strategy of Dayer 1 is: 30 = (1 1 1 2) - We solve P2 st. m=4,m=2 C= (c1, c2, c3, c4)  $A = \begin{pmatrix} 3 & 1 & 1 & 0 \\ 1 & 2 & 0 & 1 \end{pmatrix} : b = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$ Bet B = ( 43, 44)



An optimal sal of (P2 st) 15: vod = ( 21, 22, 23, 25) 176 the optimal in cooling io: do0 = - \$ 2 An optional sel of (P2) is: 80=(210,02)= (111) w= 1 = 1 = 3 3 2 An optimal & strategy . of Rayer 2 is: y° = 20. 20° = 5 (1 2) = (1 3) w = w- R - 5 5 -1- 5 1 y = g = ( 1 3) 力。主