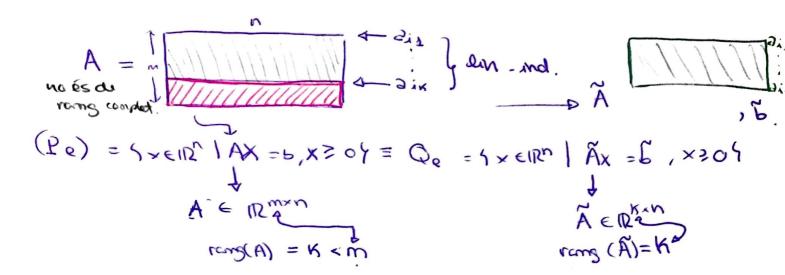
Th. 2.1. (p38)



Exemple

Pe
$$\frac{1}{2} \times_{1} + \times_{2} = 1$$
 (1) $\frac{1}{2} \times_{1} + \frac{1}{2} \times_{2} = 1$ (2) $\frac{3}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{3}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (4) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (3) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (4) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (5) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (6) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (7) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$ (8) \times $\frac{2}{2} \times_{1} + \frac{3}{2} \times_{2} = 2$

Teorema 3/ (p.42) Sigui Pe = 0, rang(A) = m, x = Pe × pt extern = x 5137 Demo X by extrem => 2BE del sisteme de couprission elminem le qui vén =0 1. - x = [x1,x2, ..., xr,0,...,0] pt extrem de Pe amb xi,-,xr>0. $(1) \ d = i \times A = b \quad -b \quad \sum_{i=1}^{r} A_i \times i = b \quad (1)$ 2. - Ai, i=1,-, r sin l.i. (por reducció alkibrard). (s) $O = i \times i \times i$ $Ai \times i = 0$ (s) ► Amb (1),(2) i prenend in escales @>0 $\int_{i=1}^{r} A_{i}(x_{i} + \theta \cdot x_{i}) = b \int_{i=1}^{r} A_{i}(x_{i} - \theta x_{i}) = b \int_{i=1}^{r} A_$ O = Aioxi = O

Wpotesi, A:X2=b P A des que : xizo, xi +0, i = 1,2,-,r (3) JO>0 to ADE [0/0): $(x_{i} + \theta x_{i}) > 0, (x_{i} - \theta x_{i}) > 0, i = 1, -1, r$ (4) when mores x x = [x + 0 - 0x , x 2 + 0 0 2 , - , x + 0 0 , 0, - , 0] r components SEU >0' i x2 = (x1-0x1/x2-0x21-,xr-0x1,9-,0) (0= 137 step 10). D x1, x2 ∈ De d- (3), x2, x2 ≥0 0- (1)

conhucció Demo (T3) campinació convera de xtixì 1x1 + 1x2 = x -> pt extrem Ill contradicuit => A: , i = 5,2, -, r son lin indep. · factible px to m vars associately => XSBF: a une metrir B no singular. 1) r=m=>B=[As,Az,-Ar=m WAN runga) B=[A1, Ar, Ar, Ar, Am] m Siang (A)=m AN X SRF => X pt ownerm 1- x EPe, SBF X = [x1, x2, -, x1, 0, -, 0], xj>0, d=1, -, s(i) ³≤m 2. - E Aixi = b, Ai, i=0, _, s = 50 l.i. AX=b 3 - X és pt extrem (per controdicció) > x no és pt exmam =) el puc eschure com c com Lineció convere du ous bount ette x = y · x, + (1-4) · x, ' x, E & ' x +x (5) *2 # X Le [a1] (1) 10 gus xi=0 ViEY81,-,~ 1 $= X_1 X_1 X_2 \in P_e$ $\stackrel{\text{(3)}}{=} \sum_{i=1}^{3} A_i X_i^2 = \sum_{i=1}^{3} A_i X_i^2 = b$ KRIDECIXED QUAR COMMO CO, O. D. QX DERIGO

At , i = 1, -, r am and
$$y = x_1 - x_2 - x_3 = x_3 - x_4 = x_3 - x_4 = x_4 - x_5 = x_5 -$$

=)
$$x = x_v = x_s =)$$
 Xbt expless