(At.I) Demandrati learence L.L.L.

File sostemul de inecuation limitare.

xh o variable pt eliminam.

(xo: { il ba: u=0 } > kj: { il aiu > 0}, k-: { il ba: u co}

File Modernal (SL). Zaij yj Ebi PEKO.

aik ( Zaejx) - ack ( Zaijxi) & aikbl-ackbi

& (1,e) & K+xK-

ofe P:= {xell^ | xol pt SI}

bT:= { xe18m-T | x, 208 b+ 25}

Arem pr > projectes lui P pe directéa xu.

by 2 { (xr ... xr+ xr++ ... xw) / (xr ... xn) eb}

Fearens pk spL

Demonstratie: Von autre intéli as pre pt Fre X & Pk. \* X= (X1. Xuz, Xk+1 -- Xn) Jxu AIR al. No (XL . - XK-1, XK, XK+1. m) EP. · Vem αυδία co i) ξαι j x sbi ; i ε κο. ente xenficat de X. E bi disanece x/& P. Zaijxj + dik xk + Zaijxj Der x renfor meg i) dim sistemal S2. no nom ough ce !!) x raight wood. air ( Early) - alle ( Early) 4 was ) & airble-alleb; December × 16 P - 22 certies. (1) Zaizi & bi / (ack) Cum alle &o, -alle >0 so -alk Zaijxj <-alkbi (2) Zaejxj < be loaik, aik >0 ail Zalitj callibe. Adunithed (1) of (2) => mix x satisface or accord meantile.

xle mux afterme

Im demonstrat dies as phe EPL. You demonsoire or PIEPK Are x6 PL. Von autor CE & x6012 and-XE (YL - xk+, xk+L- Xn) , Xe PL. x = (x L . - x le - 1, x le, x le + 2... 7m) for x'6P. E aijxi &b? , ist, m 4'6P dar Puden rowe megaliable andervour antfeli. aik XK & bi - Zaijx& - Zaijxò Potum result. aixxx & Ci Se observé ed pt i ello se revifici inegalishe andoisons 04 ci - ce / (-alk-aik) pt 16 CC+ > XK & Ci aik s QUU- => XK E-CR ack o E-cialu + aikcl. tear =) est edivalent a adolla talla mag de Si. Den XEPL => 3 xkan x'6P Den PrEP1.

phepl of Beby =) Phepl god. (H ROZ) De DEMMAN & bollom. Sindemul AXEB au solutie dacé à nomer doct dep 50. A deux on 250 m 9+ 8=0t Den : "> " fre vo EIR" -0 slevre a n'ot AxoEb. Fre 420, of A=0t. AxoKb => Yth xo & yth s) otro & 4th s) 0 { ytb = 1 ytb 20 / LEU Pe y 30 2 yth.50. Conform Comform ipoten ytb 20. Pp ce x xe(12, yx>p=) dxyx >p ñapp => \$ ot x > ytb => 0 > y 6 > 0 xe

-4-

Z xoGin or AxoEb. ged.

(# 1.3) Un polledur este o multime concert.

Un poliedur este indersector unus numbro filmt el semipoti!

Un senight is est definit astfel.

H= 2 at . \* = B | x6|R" } pt ach, pr R.

O multime convexó CEIR ddoct.

Ly XL + 22 XL & C X+1, XL & C., Ly LL >0

21-1/2=L.

Den: De XI, XL 6 Polledur.

Cern Peste Mit aftet la imtersecta una me finit che

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xmispipi fe H un xmispatra ales abidrar.

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Cern XI, XL6P => XI, XL6 H => Bt => XL 6B

at XL 6B.

Fre St, 2 >0 om SI+AZZI.

at xz EB 1-22 => at 22 xz E 22 B

at (2xx+2xx) = (21+2)B

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(HI.u) Den devena 1.3.8. Pe x o solute featile a lew LP, you iou y or solute fessibilé a dadi LP. Houns X, y mt aprime d'acci ount complements pt (P) N 18). 0/05 x, y sunt complement dace g: (b?-a?x)=0, + isTim Demit a Re X, y ou go (bi-aix) 50. Hislim yt A 9 = 5 Z y: (d:x) = 2 Z y = b: = yt ob Dan ythes cto dean ythect (ye forble a dealer) Dec (tx= gtb = ) xy sunt optimed. (P) optimal. Durchthe feetabile => ythectx = yt Axeyth = yt (b -bx) = 0 4:(p:-x; x) 20  $= \frac{1}{12} \frac{yi(bi-aix)=0.=}{20.12}$   $= \frac{1}{12} \frac{yi(bi-aix)=0.=}{20.12}$   $= \frac{1}{12} \frac{yi(bi-aix)=0.=}{20.12}$ Histin Jed.

(A+5) Den es devala dudi les LP and ochircles au primale lui CPa Aven problema Bunde LP. max {ctx/ Azeb? Arem dude min Syblyzo, ytt =ct? Von construi duale duli. from gt A=ct. for gt Ax=ctx.
For x as Ax=b. Dan grabone ct x= yt xx = yt b ( yzo) bu ctasytb, bxsb. Dei duala duali ar max {c+x1 Bx =b} con which us posimole god