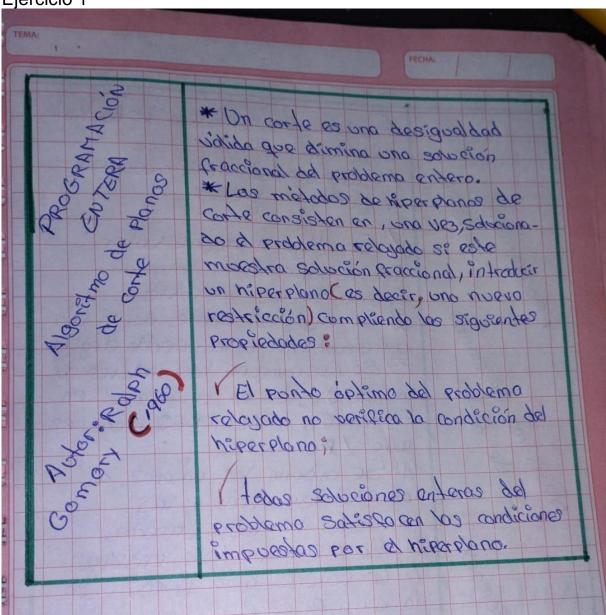
Ejercicio 1

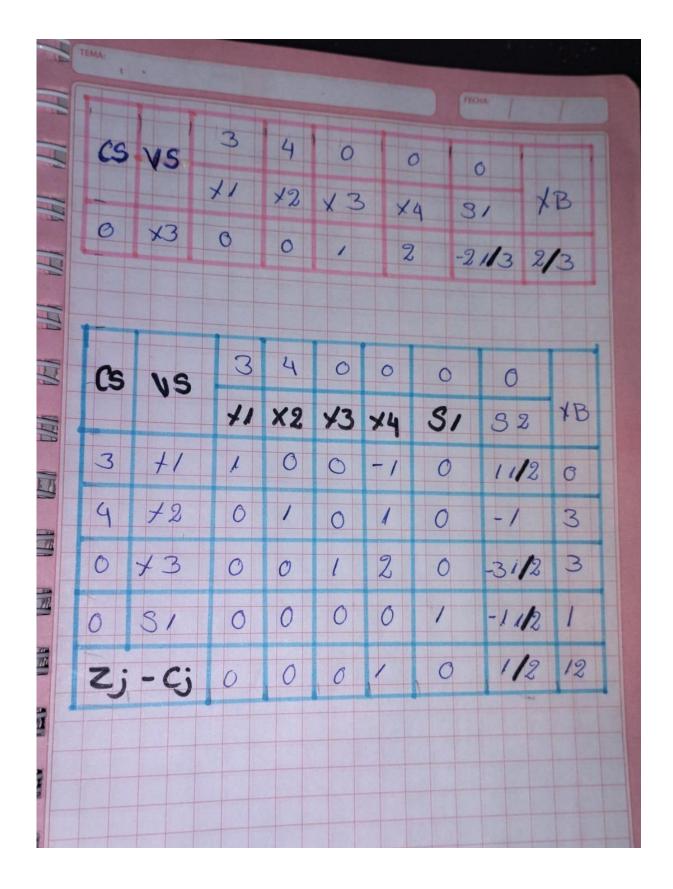


So base maxematica es bastante amplea. La aprearemon delizando un comporto de pasos: 1. Se dege a MENOR valor fraccionario de la soloción externa so las sariables 2º Se etige los volores do la Cito correspondiente a la soroble degido 3º Se les compone los valores de la Cala desida en al paso 2º en ENTEROS y FRACCIONES monores EAUTIEO 91 sup 4º Se ordeno los enteros al lado del isquierdo y las fracciones del lado derecho. 5° Se d'iméran los enteros Autoriales General 6° Lo volores que quetan se igodan a (=0 7º 30 traslada al lada derecho los valores sen variable 8º Paro Lograr La Egualdad agrego uno sariable do nolgora of Los valores produdo de op/100 p 100/190 8º se agraga como sna sela mos a la Labla costima del metado simplex

| TEMA: | | | | - | |
|------------|------------------|-------------------|---------|---|-----------|
| | 10°Se aplical | solvei do el n | ino Cin | simple | ente X |
| EJ. Maxi | miza | 005 | | | |
| Max Z | -3× | 1+4× | 2 | | |
| Susato a ; | | | | | |
| 1) 3×1+x | 2 <= 6 | 2) | 2×1+ | 3 + 2 4 | 1=9 |
| | *1, | ×2>= | o, entr | ems | |
| CINC O | | | | | |
| CS VS | 3 | 4 | 0 | 0 | XB |
| 0/8-1 | */ | ×2 | +3 | 2 12 12 12 12 12 2 12 12 12 12 12 12 | 300 |
| 3 41 | 1 | 0 | 3/7 | -117 | 12/7 |
| 4 12 | 0 | 1 | -2/7 | 3/7 | 21/7 |
| z; - C; | 0 | 0 | 1/7 | 12/7 | 123/4 |
| 301 Opt | | | | | |
| | - 1 00 | 10- | 2 1A= | 9.14 | 202/23/ |
| +1=12/7 | _ / , 29 | THORK SHORK | | 2017 | |





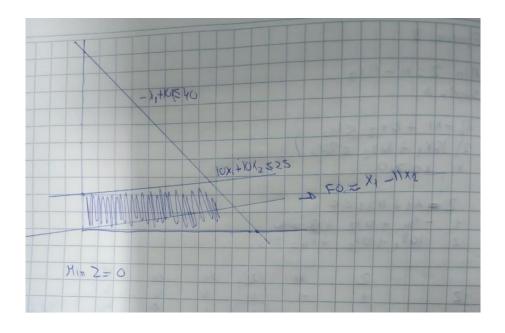


| Ejercicio 2 | 10 | 136 | | | | | |
|---|----|----------------|------|---|--|-----|---|
| 4 54 4 4 | | | | | | | |
| Max. $2 = 5X_1 + X_2 + X_3$ | - | | | | | | |
| Sujeto a: $2 : X_1 + X_2 + 2X_3 \le 10$ | - | | | | | | |
| $R_0: 6X_1 + 2X_2 + 2X_3 \le 10$ | - | - | | | | | - |
| x, x2, x3 70, enteros | - | - | - | - | | X | - |
| 11/21/3 | + | | | | | | - |
| PASO 1. Métedo Simplex | | - | | | | | - |
| | - | | | | | | |
| Max. $2 = 5x_1 + x_2 + x_3$ | | | | | | - | - |
| 5:a: $x_1 + x_2 + 2x_3 = 10 \longrightarrow x_1 + x_2 + 2x_3 + 0x_4$ | | | | | | | |
| $x_1 + x_2 + 2x_3 + 2 = 10 \longrightarrow x_1 + x_2 + 2x_3 + 0 \times 4$ | | | = 10 | > | | | |
| $R_2: 6X_1 + 2X_2 + 2X_3 = 10 \rightarrow 6X_1 + 2X_2 + 2X_3$ | +0 | X ₅ | 51 | 0 | | | |
| X, X2, X3, X4, X5 30 | | | | | | | |
| 7, 2, 3, 4, 4, 5, 70 | | | | | | | |
| Hax. 7=5x, + x2+ x2+ 0x4+ 0x5 | - | | | | | | |
| | - | | | | | | |
| | | | | | | 199 | |

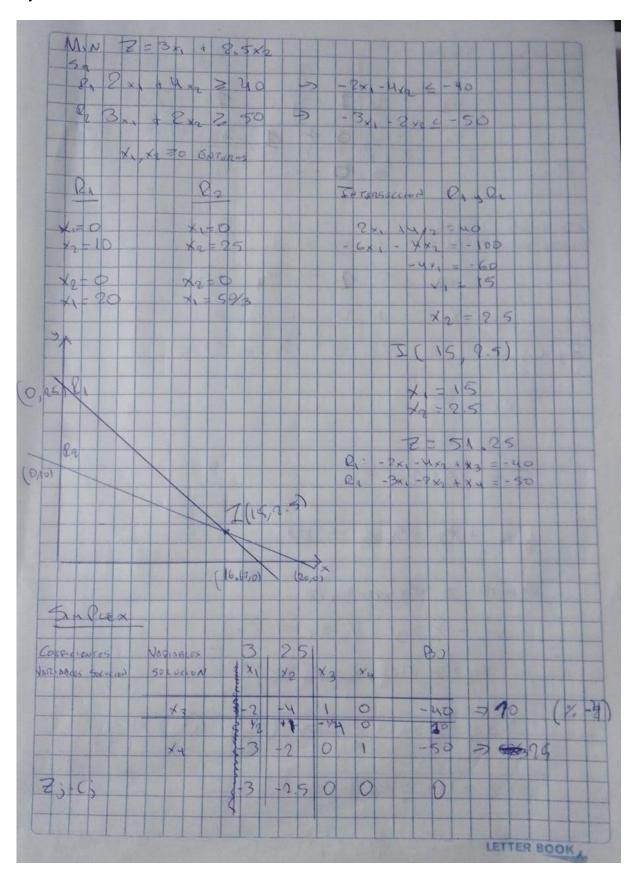
| coefficientes | de | Variable | 5 | 5 | 1 | 1 | 0 | 0 | | | |
|---------------------------------------|--------------------|----------------|------------------|----------------|----------------|------------------|-------|--------------------------------|-------|---------|-----------|
| la variable s | olución | colleción | - | X, | X ₂ | X3 | Xy | | 81 | | |
| F.O. | | | | | 12 | 13 | 74 | 7 | | | |
| 0 | | Xy | | 1 | 1 | 2 | 1 | 0 | 10 | | 10/1 = 10 |
| 0 | | X ₅ | | 616 | 216 | 2/6 | 016 | 1/6 | 1 | | 10/6=1- |
| 21 - Ci | | | - | -5 | -1 | -1 | 0 | 0 | | | 102 |
| 2j-Cj | | Xy | | 0 | 2/3 | 5/3 | 1 | -1/6 | 25/3 | | |
| 5 | | X, | | 1 | 1/3 | 1/3 | 0 | 1/6 | - | | enor val |
| =j-cj | | | | 0 | 2/3 | 2/3 | 0 | 5/6 | | | ccionari |
| 450 2: Aplic | cando | Gomory | | | | | | | | | |
| X ₁ : X ₁ + 1/3 | - X ₀ + | 1 X 2 + 0 | X _V , | 1 4 | 5 | | | | | | |
| | , | | | 0 | 2 | | | | | | |
| - Descomponi | er en | enteros | y t | racc | iones | posi | fivas | MENU | res (| 4 1. | |
| X1: X1+ | - X2 + 1 | X2 + 1 | x | 5 | | | | | | | |
| | | | | | | | | | | | |
| X | 1 X2+ | 1 ×3 + | 1 X5 | = (1 | + 2) | | | | | | |
| | 3 | 3 - | 6 | | 3/ | - | - | | | | |
| Jeg. ente | ros | De | erecha | · Fran | cciona | rios | | | | | |
| X | 7 - 1 | X2 = 3 | X2 - | i X | + 2 | - 2 | 0 | | | | |
| | | | | | | | | | | | |
| Se eliminar los enteros | -1 | ×2 - 1 | X3 - | 1 X | 5 5 | _ 2 | | | | | |
| los enteros | 3 | 2 3 | | 6 | 3 R | 3 | | | | | |
| | | | | | | - S _‡ | | - | | | |
| variables | 5 | 1 | 0 | 0 | 5, | D. | | | | | |
| solución | X, X | 2 X3 | Xy | X ₅ | 71 | Bj | | | | | |
| Xy | 0 21 | 3 5/3 | 1 | -1/8 | 6 0 | 25/3 | | | | | |
| X | 1 1/ | 3 1/3 | 0 | 1/6 | | 5/3 | | | | | |
| 2 | 0 4 | 3 2/3 | 0 | 5/6 | 0 | 25/3 | | 2/5 | col | umna | prote |
| 5, | 0 -1/ | 13 - 1/3 | 0 | -1/6 | | -2/ | | 751 | · mei | nor val | for abse |
| 2 | 0 0 | | 0 | 1/2 | - | 7 | | | | | |
| X4 | 0 | | 1 | -1/2 | 2 | 7 | | X, | z 1 | | 5X + X 2+ |
| X | 1 0 | | 0 | 0 | 1 | 1 | | SHOW SHOW IN | = 2 | 2= | 5+2+ |
| × ₂ | 0 1 | 1 | 0 | 1/2 | -3 | 2 | | THE RESERVE AND ADDRESS OF THE | = 0 | 2: | = 7 |
| | | | | | | | | 120 | 71 | 1 | |

Ejercicio 03

| CI.I.I.R | | | | | | | | |
|------------|----------|-----------|------|---------|-----|------------------|---------|------|
| Ejercido 3 | | | | | | | | |
| Min 25x | 1-11×2 | | | Like St | | | | |
| sujeto a | | | | | | | | |
| 1) -x1 + | bx 2 < 2 | 40 | | | | | | |
| 2) 104, | + 10 x 5 | 205 | | | | | | |
| X1, X2 | | | 444- | | | | | |
| 7 0. | 10 | | | | | | | |
| 1 -11, | + 10 XZ | LV0 .)10 | | | | | | |
| 2 104 | , + 10×2 | + X4 - 2 | 05 | | | | | |
| | | | | | | | | |
| | 2 | XI | XZ | Y3 | Yy | R | | |
| 2 | 1 | -1 | 11 | 0 | 0 | 40 | 40/10 | _21 |
| X 3 X 4 | 0 | 10 | (19) | 1 | d | 203 | 205/10 | -20. |
| 74 | | | (19) | | | 203 | | |
| | 2 | (X) | Xz | ×3 | Yu | R. | | |
| 2 | 1 | (1/10) | 0 | -1 1/10 | 0 | -44 | 12 / 14 | 1.6 |
| λ2 | 0 | -1/10 | 0 | 1/10 | 1 | 168 | 165/11 | |
| 14 | 0 | | | | | 10 | 0/1/ | |
| | 2 | X | XL | X3 | X4 | h | | |
| 2 | 1 | 0 | 6 | -1/11 | 0 | -45 1/2 5 1/2 | | |
| 3% | 0 | C | 1 | 1/11 | 711 | 5 1/2 | | |
| X | 0 | 1 | 0 | - 1/11 | 70 | 15 | | |
| 1 1/2 - | 1/11/2 | = 3+1/2 | | | | | | |
| | | | | | | | | |
| 1 x2 | -5 = 1/2 | -111143 | | | | | | |
| 1/2 | -1/11 X3 | | | | | | | |
| 1/2 | - 1/11/3 | 00 | | | | | | |
| -1/1 | 1 /3<= 1 | 12 | | | | | | |
| | | | | | | | | |
| -1/ | 11 /3 +5 | 1) = +1/2 | | | | | | |
| | | | | | | | | |



Ejercicio 04



COSTIGION 163 19 +0.695 25 COEFICIENTES 500 ct 100 X X VARIABLE SQUEION -7/1 +1/4 1 175 1.65 51.25 + Ma - My Xh NO to sty warming - 2 41 9 X2-X3-2= 3x3-4X4+2 LETTER BOOK

