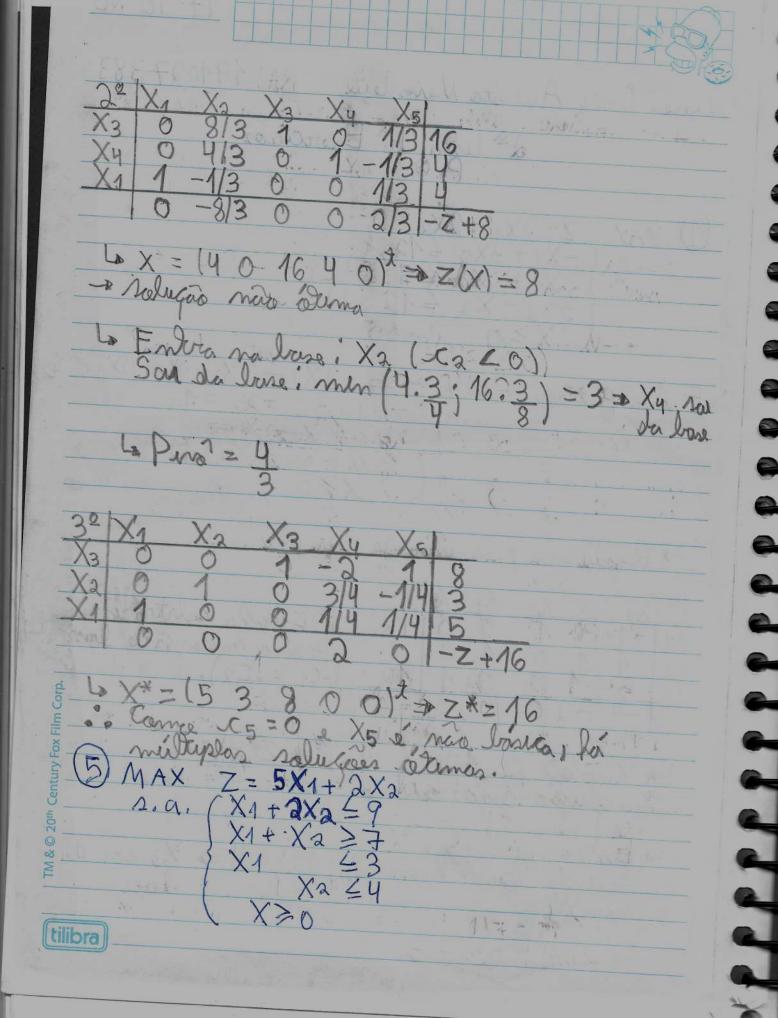
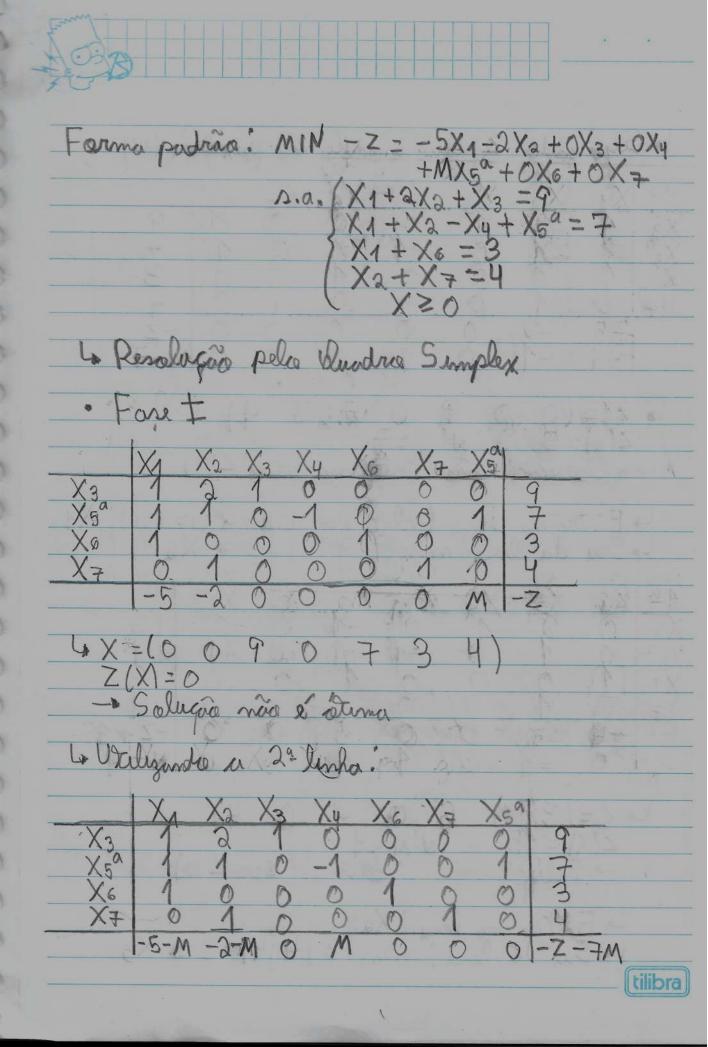
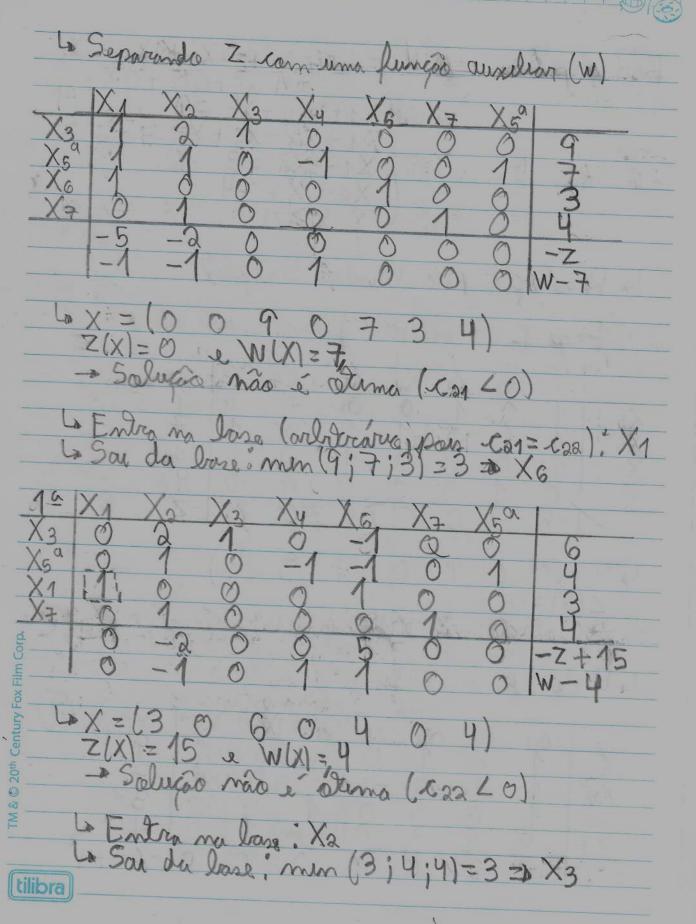
17.10.20 RA: 191027383 Name: Dave Augusto Neves leve 2ª Lista de Exercíais 1) MAX Z=2X1 +2X2 -X1+3X2 412 2000 X1+ X2 68 3×1-×2 612 XZO Forma Padrão: MIN - Z = -2X1 - 2X2+0X3+0X4+0X5 1.a. (-X1+3X2+X3=12 X1 + X2 + X4 = 3X1-X2+X5=1 - Resolução pela Duodra Simplex 0 8 para a mudança de lase 1 12 (11 = 12). 12 \* Escolla webstrária -> Solução não otima

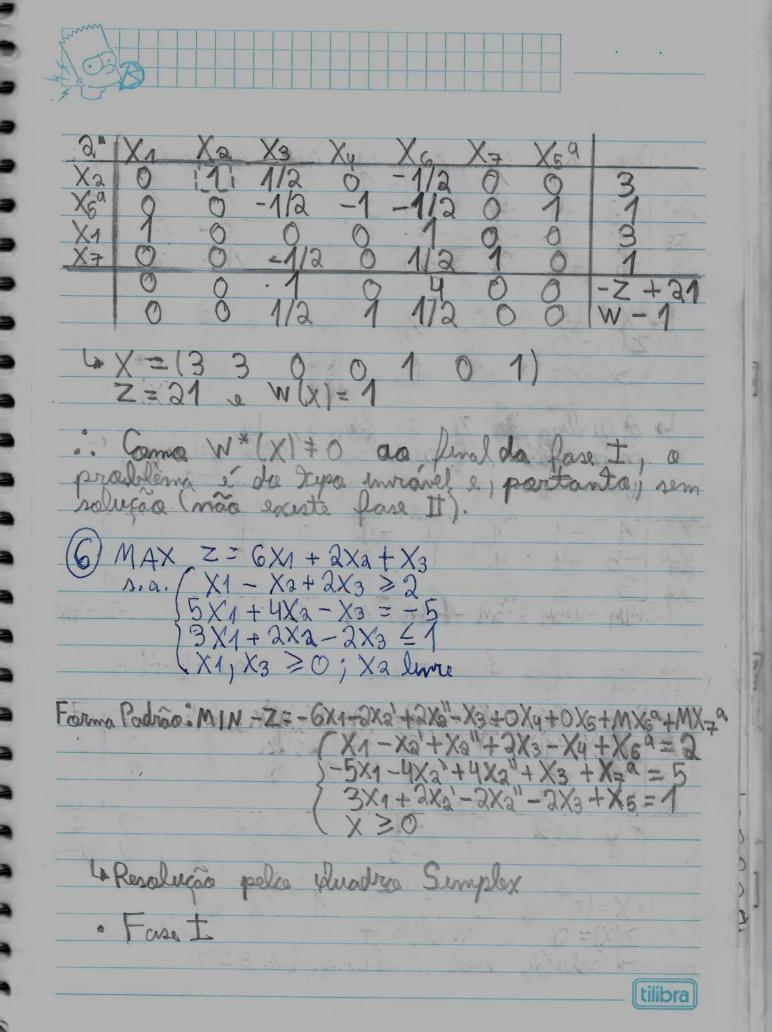
Lo Entre mer base: X1 Sat da base: min (2:12) = 4 => X5 sat do base

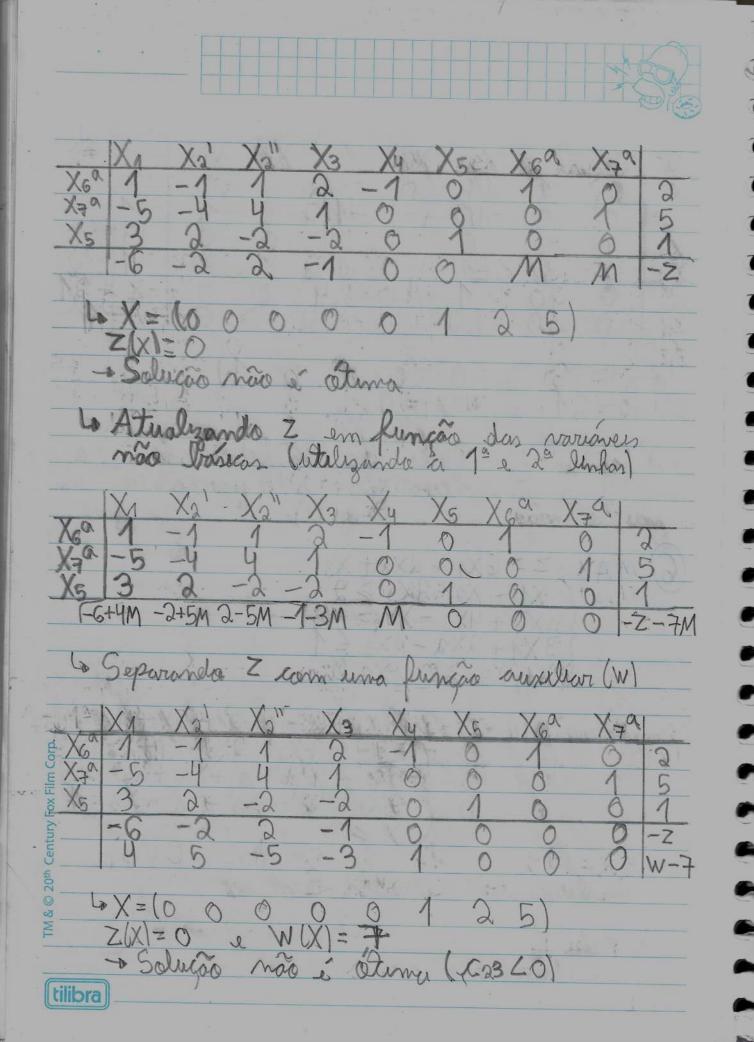
\$ Pero : 0131 = 3











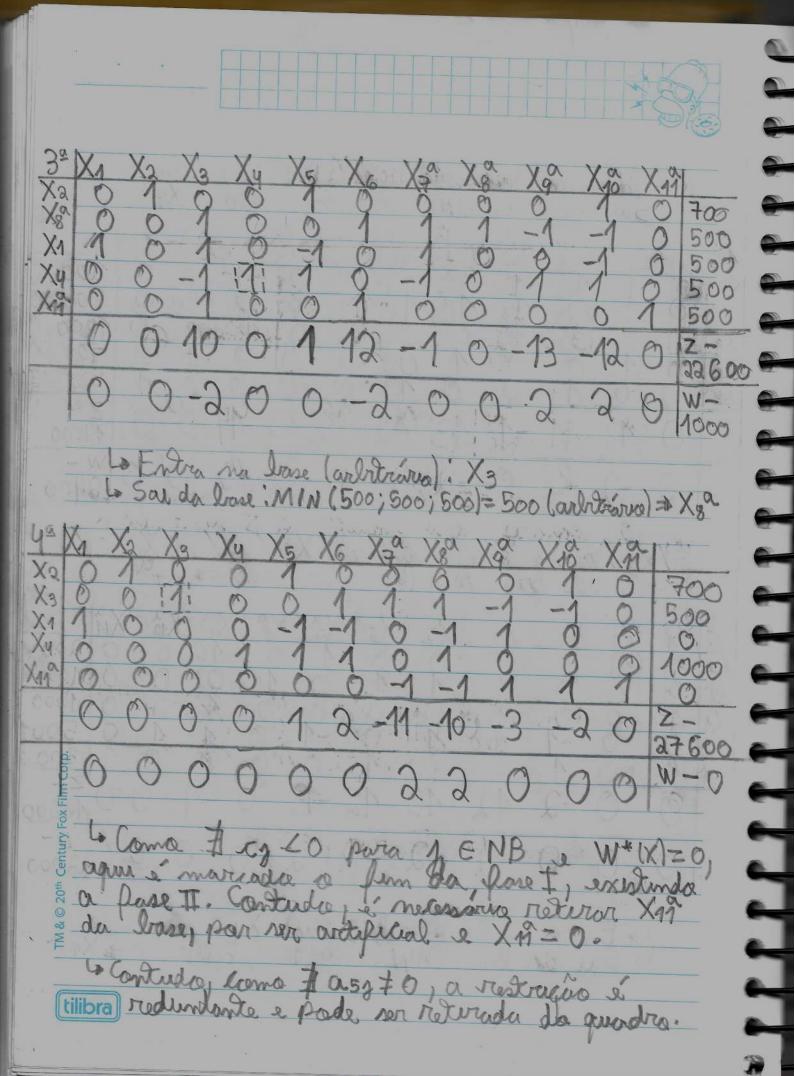
La San da lose : MIN (2; 5) = 5 => X79
1º X1 X2 X2" X3 X4 X5 X6 X79 X6 9/4 0 0 7/4 -1 0 1 -1/4 3/4 X3 -5/4 -1 1 1/4 0 0 0 1/4 5/4 X5 7/2 0 0 -3/2 0 1 0 1/2 7/2 -7/2 0 0 -3/2 0 0 0 -1/2 -z-5/2 -9/4 0 0 -7/4 1 0 0 5/4 W-3/4
UNX=(0 0 5/4 0 0 7/2 3/4 0)  Z(X)=-5/2 e W(X)=3/4  → Solução mão e Stama (xon ∠0)  Lo Entra na base: X1  Lo Sar da Jase: MIN (1; 7)=1 → X6°
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Z(X)=-4/3 e W(X)=0  * Como # Eg 20 para g E NB; W*=0 e # Xª  na base   existe a place # e agus morea a términa da place #.

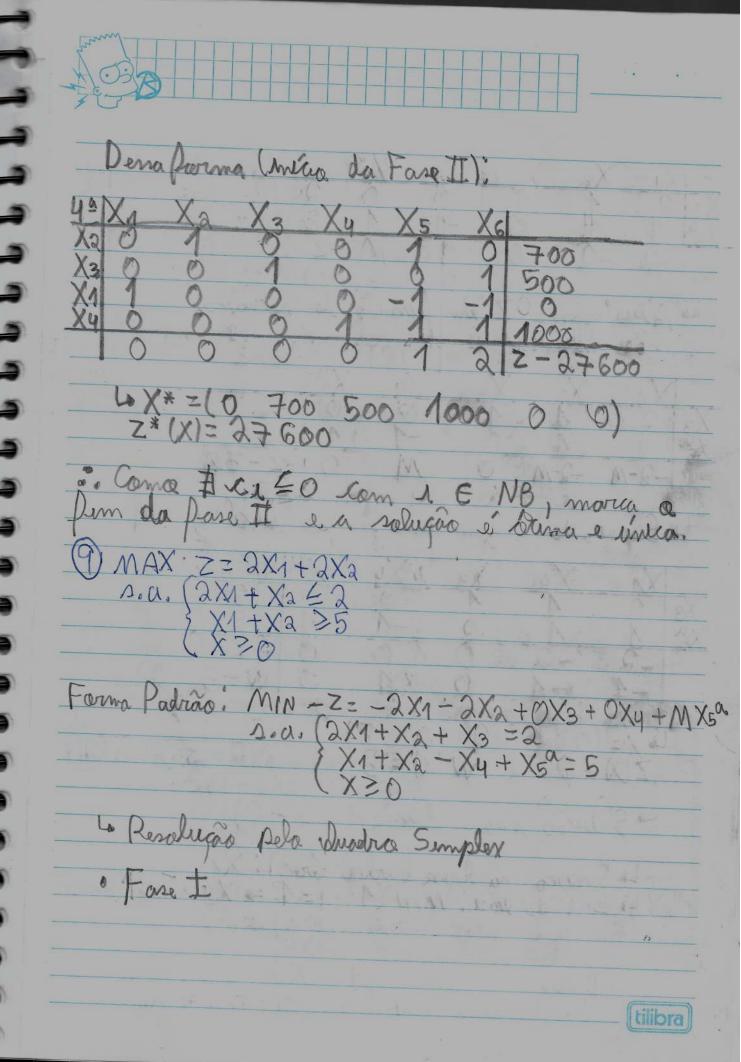
· Fase I	
29 Y. Y. V 11 V	
X1 1 0 0 7/9 - 1/0 2 1/5	
X 0 1 -1 1119 -519 0 513	11121
15 0 0 0 -17/9 2/9 1 10/3	
11/9 -14/9 0 -z-4/3	N. MERX
X= (1/3 0 5/3 0 0 10/3)	
Z(X)=-4/3	- mil lan
Z(X)=-4/3 - Salução não é Dama (£5 LO)	3 14
4 - Mrs ma Vmas XII	
4 Sa da lose: MIN (15) = 15 → X5	
3º X1 X2 X2 X2 X2 X2	
X1 1 9 9 - 3 0 4/9 7	
Xu 0 0 -1-12 0 5/2 10	
10 0 0 -17/2 11: 9/2 15 0 0 -12 0 7 -z+22	_
	7 1
Lo X = [7 0 10 0 15 0]	
Borni Lada necessa entrar na lare	Min
possei todos os as a Los estas des-se	mas que otima
sendo desa Dozani ZXIVI - I more more	a Otima)
The property of the state of th	
tilibra	

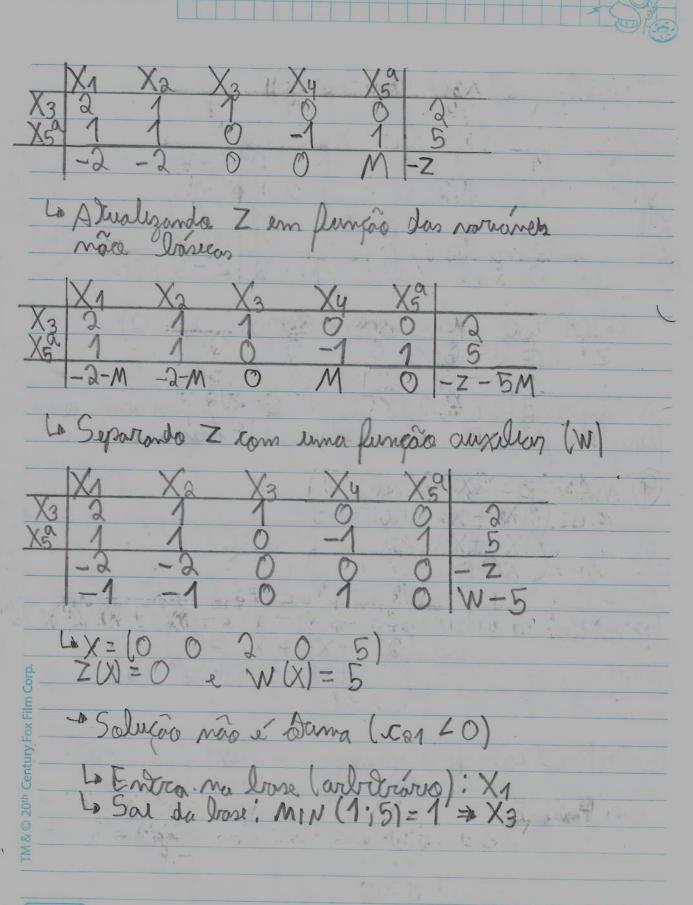
$7 MIN Z = 14 X1 + 13X2 + 11X3 + 13 X4 + 13 X5 + 12X6$ $2.0. (X1 + X2 + X3) = 1200$ $X_1 + X_2 + X_3 + X_6 = 1000$ $X_1 + X_2 + X_3 + X_6 = 1000$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Forma Padrão:
MIN Z = 14X1 + 13X2 + 11X3 + 13X4 + 13X5+ 12X6 +MX7 + MX8 + MX9 + MX10 + MX10 + MX10
$\Delta \cdot \alpha \cdot (X_1 + X_2 + X_3 + X_7 \alpha = 1200)$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
La Resolução pela Sundra Simplex
· Fase t
X <sub>4</sub> X <sub>3</sub> X <sub>3</sub> X <sub>4</sub> X <sub>6</sub> X <sub>6</sub> X <sub>7</sub> X <sub>8</sub> X <sub>9</sub> X <sub>1</sub> X <sub>1</sub> X <sub>1</sub> X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>1</sub> X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>1</sub> X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>1</sub> X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>1</sub> X <sub>2</sub> X <sub>1</sub> X <sub>2</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>2</sub> X <sub>1</sub> X <sub>2</sub> X <sub>2</sub> X <sub>1</sub>

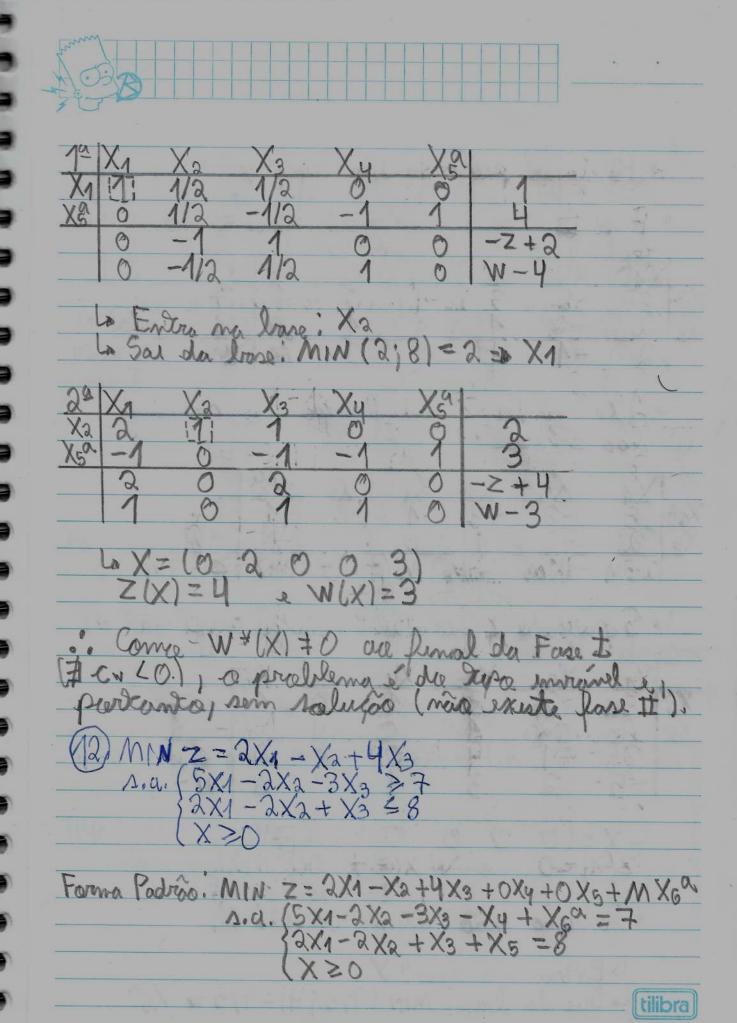
4 Atualyanda Z em. dus novolvires Não Drásicos X70 X80 1200 1000 X92 X10 X10 1000 2-4400M auxiliar (W) La Separanda 1200 1000 1000 Xno 700 500 2 W-4400 1200 1000 1000 700 500) W(X) = 4400 + Solvião não é otama (LuLO) tilibra

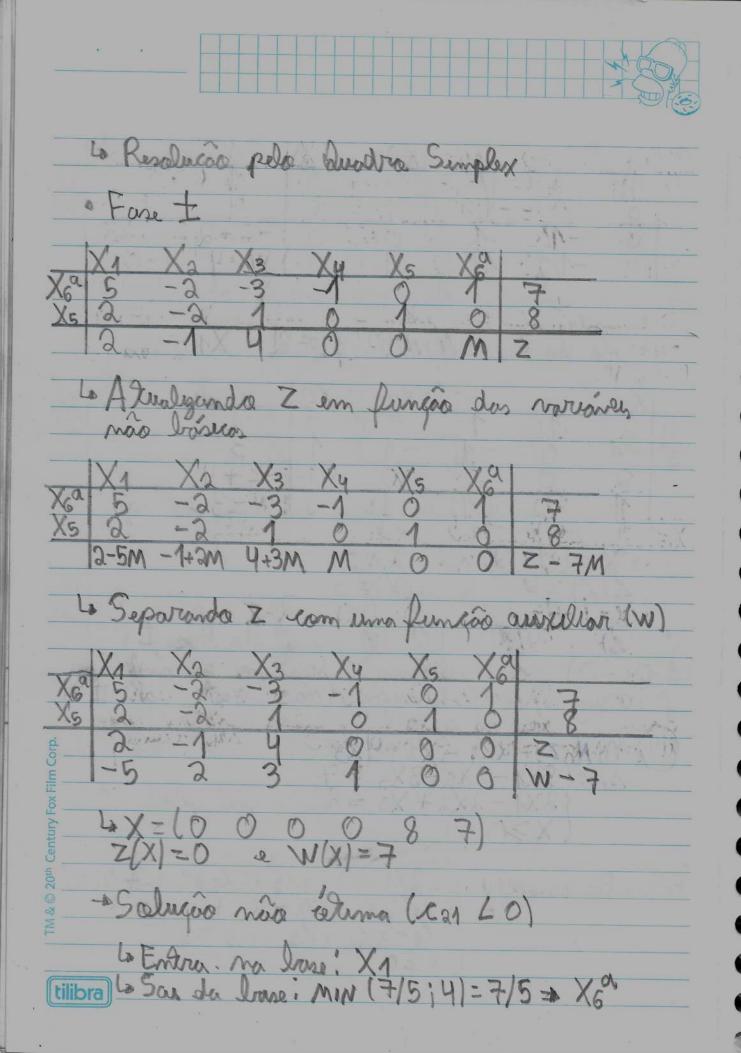
La Entra na lase (arbitrious): X1 La Sar da Dose; MIN/1200; 1000) = 1000 => X99 W-La Entre na losse (arbitrarye): X2 La Sas da Jose: MIN (200; 700) = 200 = 1 X79 Xa X80 W-La Entra na lore (arbitrário): X4 La Sau da Prasa: MIN (1000; 1000; 500)=500 = X10°









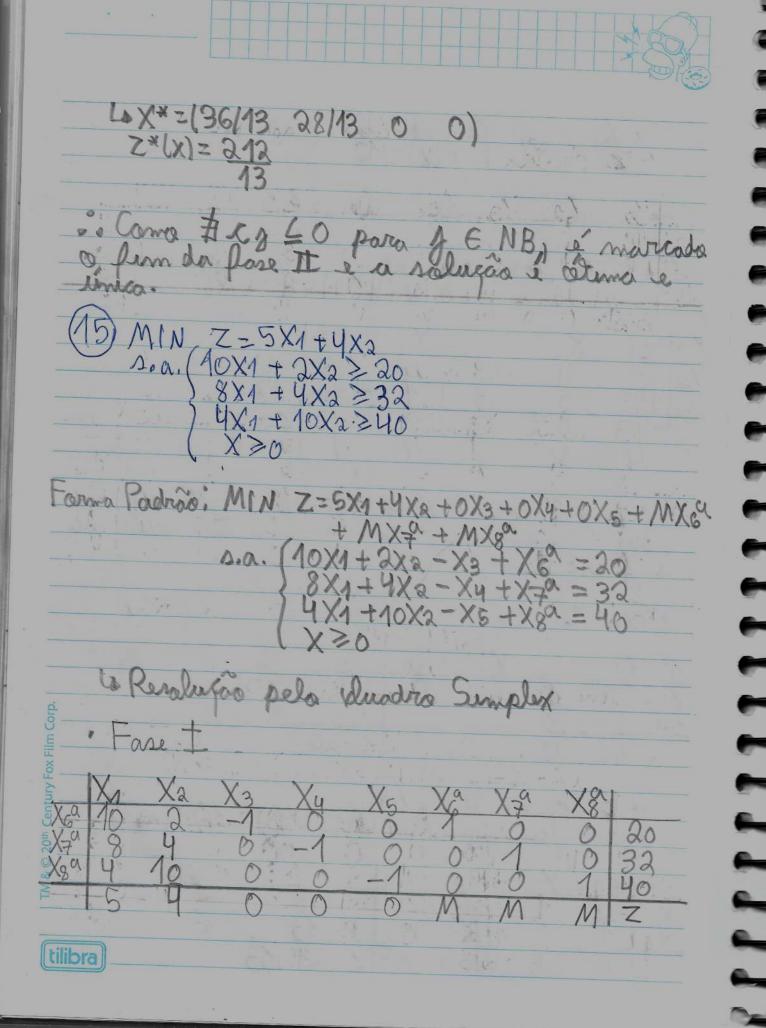


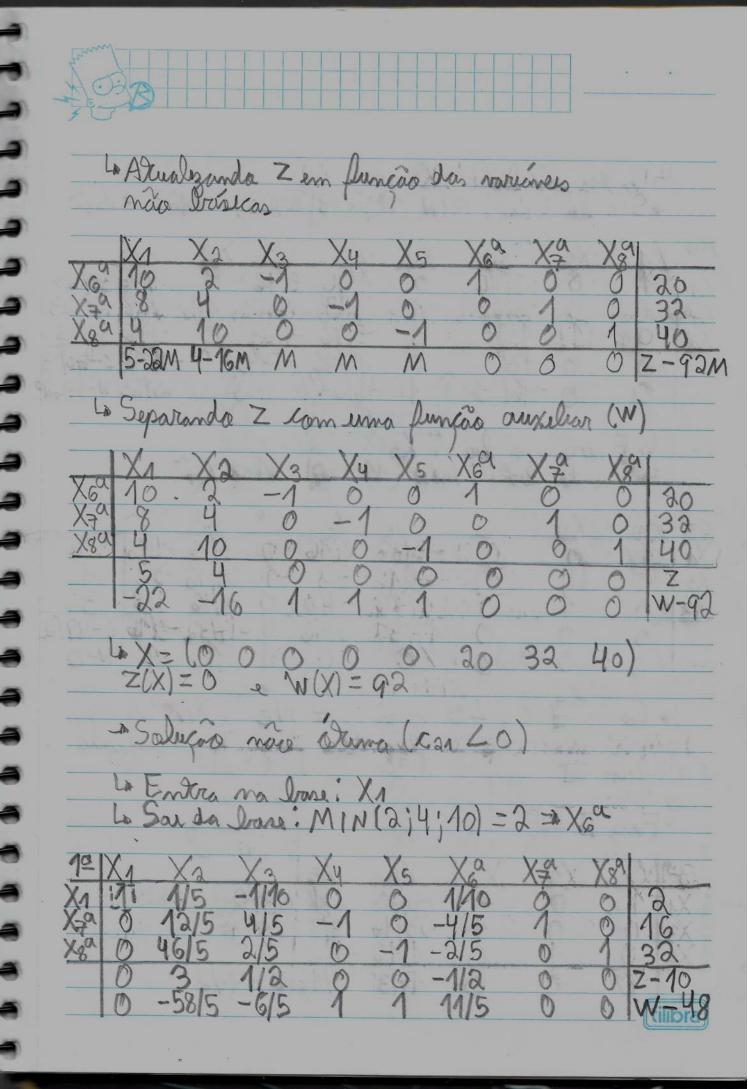
1º X1 X2 X3 X4 X5 X6 X6 X1 X1 X1 X1 X1 X1 X2 X3 X4 X5 X6 X6 X1 X1 X1 X1 X1 X2 X3 X4 X5 X6 X6 X6 X1 X1 X1 X1 X1 X1 X2 X3 X4 X5 X6 X6 X6 X1
La Coma # 25 LO pora of ENB & W*(X)=0,  aque e' marcada a pinn da fare I, existenda a  Pare II.  Fare II
1º X1 X2 X3 X4 X5 X1 1 -2/5 -3/5 -1/5 0 7/5 X5 0 -6/5 11/5 2/5 1 26/5 0 -1/5 26/5 2/5 0 Z-14/5
Le X= (7/5 0 0 0 26/5)  Z(X)= 14/5  Como X2 necenta entror na lare mos pones todos os a 22 60, entro, de 12-se que a
ponus todor or 012 60, então de 12 10 que a problema ponus solução viável (não otima) de tupo Z*(X)=-00.  (14) MIN Z=2X1+5X2  100 (2X1+3X2 > 12  7X1+4X2 = 28

Z= QX1+5X2+0X3+0X4+MX5 torma Padrão; MIN +3x2-X3 + X5=12 Quadra Simplex · Fane I

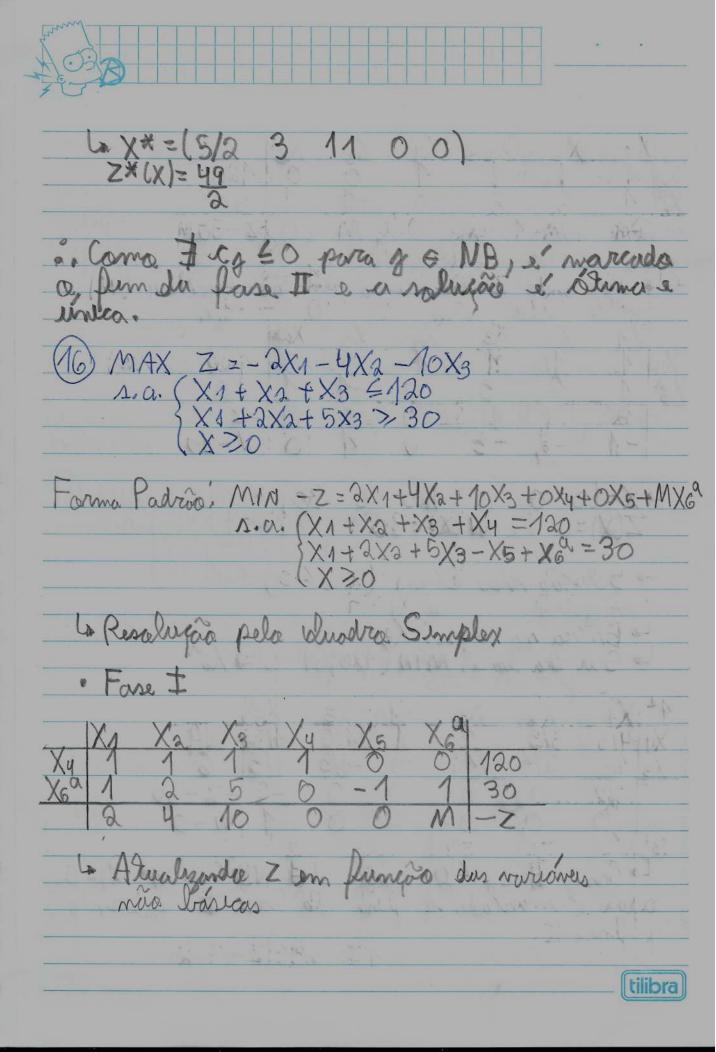
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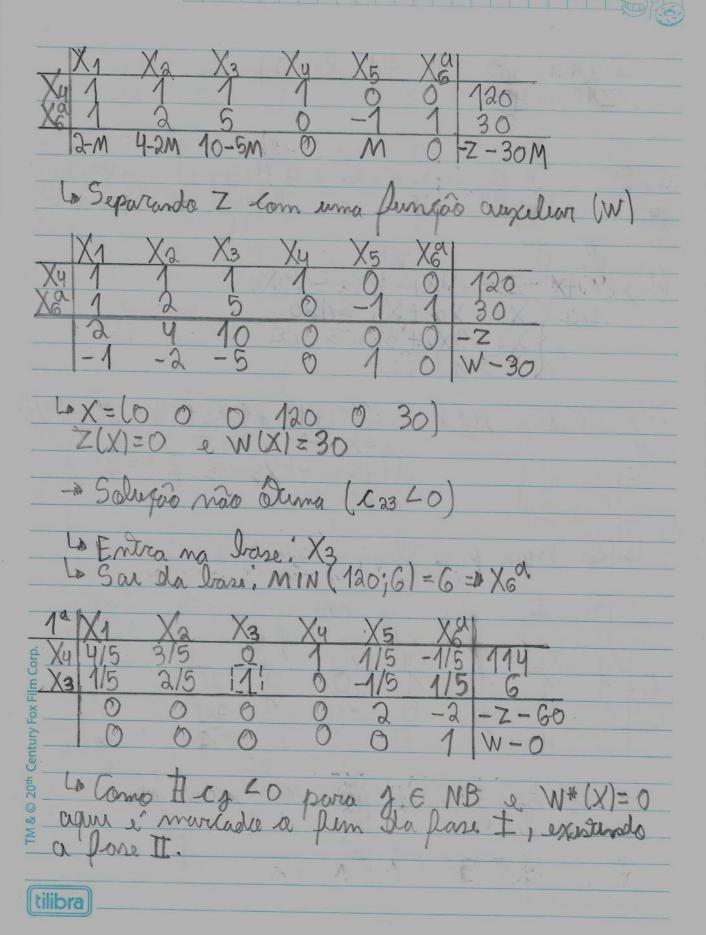
Z(x)=0 0 0 28 12)  Z(x)=0 2 W(x)=12
- Solvejo não Sama (R22 LO)  La Entra na lase: X2  La Sar da lase: MIN (4;7)=4 30 X8
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Le Cama # cg LO para y E NB & W*(X)=0, aque é nevelade a fim da pase I ; existenda  o Fare II.
1º X1 X2 X3 X4 X3 X4 X4 X4 X3 X4 X4 X4 X4 X3 X4 X4 X4 X4 X3 X4
La Entra na Imre: X1  La San da Irane: MIN (6;36/13) = 36/13 => X4  2º   X1

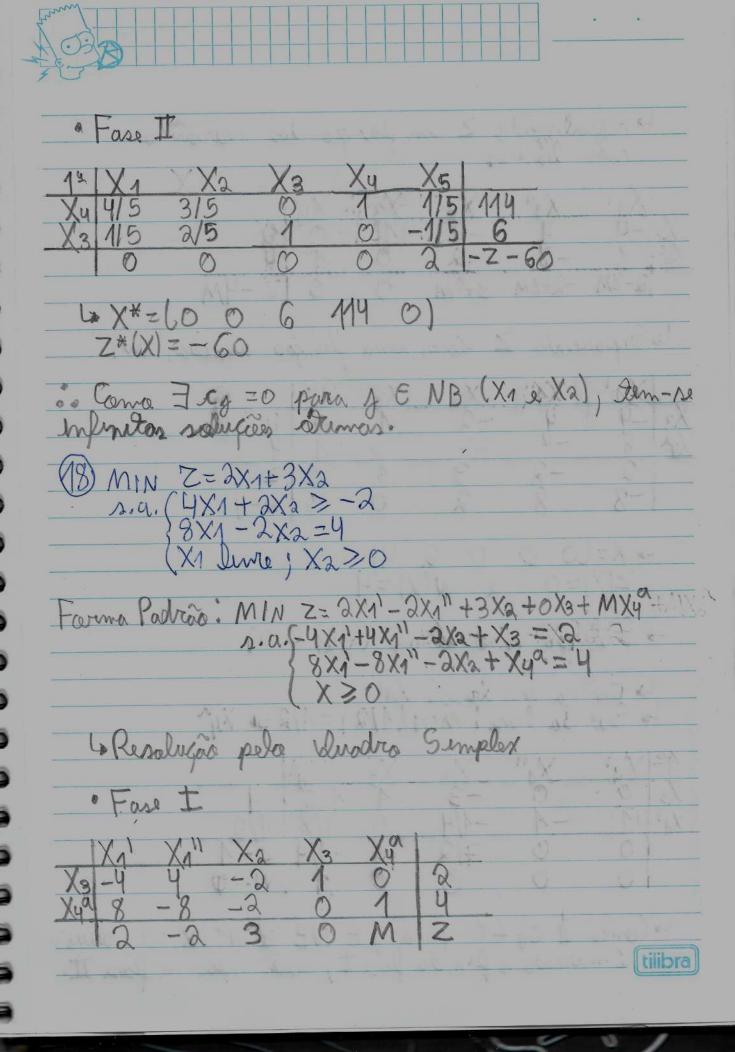




to Entra na Irase: Xa 4 Sou da brase: MIN (10;20/3;80/23)=80/23 > X80 -1/46 30/23 -5146 6/23 16/23 -16/23 -6/23 176/a3 -5/46 1/23 -1/23 5/46 80/23 -15/46 Z-470/23 29/23 W-176/23 17/46 15/46 17/46 39/23 -16/23 -6/23 La Entra na bose: X3 La Sou da brose i MIN. (M; 80)=M→X7 5/32 23/16 23/16 3/8 1/16 -1/8 17/32 3/16 -1/16 118 3 -17/32-31/16 Z-49/2 W-O O para A E NB april e marcado. a · Fase II -23/16 1116 tilibra







La Ascualizando Z un flunção dos variáneis
$X_{1}$ $X_{1}$ $X_{2}$ $X_{3}$ $X_{4}$ $X_{3}$ $X_{4}$ $X_{3}$ $X_{4}$ $X_{4}$ $X_{3}$ $X_{4}$ $X_{4}$ $X_{5}$ $X_{7}$ $X_{1}$ $X_{2}$ $X_{3}$ $X_{4}$ $X_{3}$ $X_{4}$ $X_{4}$ $X_{5}$ $X_{5}$ $X_{7}$ $X_{1}$ $X_{2}$ $X_{3}$ $X_{4}$ $X_{5}$ $X_{5$
la Separando Z com uma função auxiliar (W)
X <sub>1</sub> X <sub>1</sub> X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>4</sub> X <sub>3</sub> X <sub>4</sub> X <sub>3</sub> X <sub>4</sub> X <sub>3</sub> X <sub>4</sub> X <sub>3</sub> X <sub>4</sub> X <sub>4</sub> X <sub>3</sub> X <sub>4</sub> X <sub>3</sub> X <sub>4</sub> X <sub>4</sub> X <sub>5</sub>
- Solvião mão Stema (C21 40)
Entra na lose: X1 = 1/2 = Xy
Mag Son de lone: MIN (1/2) = 1/2 = Xy  Min (
tilibra à marcado a fun da fase t, existende a fase It.

· Fose II Dermos. NB (X111), Jem-10 tilibra