Problema 2 x= cuidado de tierra 1) y= crecimiento de plantas 2.5x+ 4 2 3 9 1x+2y240 x, y 70 MINIMIZAR Z=0.30x+0.524 $y = 3 - 2.5 \times y = 2 - \frac{x}{2}$ z = 0.30(0.3)+0.52(1.73) Z= 1.06 2-0.5x = 3-2.5X X = 0.5 y = 1.753) Y= 1 2.5x +1 23 x + 2 2 4 X 7 0.8 X 7 2 Z = 0.3 (0.8) +0.52 Z = 0.3(2)+0.52 2:0.76 z= 1.12 12// La sol. óptima es usar o.8 kilos de tierra negra y y kilo de fertilizante para así minimizar costos.

```
Problemat
XAmmonca
XB
XC
40 Million
Max 2= 5 x A + 7 x B + 6 x c + 4 x D $ 700
5.9
     0.10 XA+0.05 XB+0.2 XC+0.75 XD 650 *100
    0.20 XA +0, 10 XB + 0.05 XC + 0.05 XD < 75 + 100
    0.05 xA+0.1 xB+0.1xc+0.1 xD = 20 *100
Forma estandar
Z-500XA - 700XB-600XC-400XD
 10 XA + 5 XB + 20 XC + 75 XD +5+
                              = 5,000
 20 XA + 10 XE + 5 XC + 5 XD +52
                              = 7,500
                        +53 = 2000
5XA + TOXB + TOXC + TOXD
      XA XB XO XD ST 52 53
 2 100 -500 (-100) -600 -400 0
                              0
          5
              20 15 1
51 0 10
                          0 0
                                   5,000
              5 5 0
52 0 20
          10
                          1 .0 7,500
53 0 5 10
              10
                  10 6
                          0 . 1 2,000
5,000 = 5 = 1000
7,500 -10 = 750
2,000 : 10 = 200 *
             XB XO XD ST SZ 53 R 700 F4 + F1= FT
        XA
 Z 100
        -500
             -700 -600 -400
                         0 0 0
                                  0
                                        -5 F4 + FZ= F2
             5
                 20
                     15 1 0 0 5,000
        10
 51 0
                                        -10 F4 + F3 = F3
                5 5 0 1 0 7,500
             10
 52 0
        20
        1/2
                 1
 53 0
             1
                     1 0 0 1/10 200
             XB
       YA
                 XC
                      XD 51 52 53
 2 100 (-150) 0 100 300
                           0.0 70. 14,000
51 0
       7.5
             0
                15
                     10
                           1 0 -1/2 4,000
             0
       15
                           0 1 -1 5,300 1.15
52 0
                -5
                      -5
                          0 0 1/10
                1
                      1
      1/2 1
XB 0
        14,000= 730= 93.33
```

4,000 ÷ 7,5 = 533,33 5,500 ÷ 15 = 366.67 200 ÷ 1/2 = 400

Scanned with CS CamScanner

```
XB
              Xe XD 5+ 52 53 R
                                      Fy +130 F3: FY
2 100
               100 300 0 0 70 14,000
       -150
                                    F2-7.5 F3: F2
      7.5 0 15 10 1 0 -1/2 4.000
510
               -1/3 -1/3 0 0 -1/15 1100/3
                                     F4-1/2F3=F4
VA 0
              1 1 0 0 1/10 200
       1/2 7
VB 0
       XA 18 10 XP 51 52 53 R
Z 100
             0 50 250 0 0 60 69,000
      0 0 35/2 25/2 1 0 0 1,250
51 0
             0 -1/3 -1/3 0 0 -1/15 1109/3
XA O
            1 5/2 5/2 0 0 38/3 50/319
XB 0
```

XA = 366.67 XB = 16.67 Xc = 0

XD=0

2=1950.00

2/11. El angraso total máximo es de Q.1950.00

2. Las bebidas c y D no se producen

