```
Bapara N2.
  F= 3- K1 + X2 => max
                                Gargagi. of grove:
   2K + 3K2 5 11
                              2K1 + 3K2 5 PP
                             - Kg - 3k2 < 2
   -X_1 - 3X_2 \le 2
                              - 2Ky + Kz & 1
    2kg - kz 2-1
 Thomomerecuere beco:
   2K + 3K2 = 11
                                      2ky + 3k2 + 41 = 11 ~ ~ 1
   - K1 - 3K2 = 2
                                      - Kg - 3K2+ 42=2 -12
   - LK + K2 - 1
                                     - 2k + k2 + y3 = 1 ~ 3
Boisombeniead japara:
 min 4 = 11 /1+2/2+ /3+3
   2A1-2A2-2A3 = -1
  3/1-3/2+ /3 =1
   4,220
   42~1230
    432 d3 = 0
T. h. 6 nompremente precentere 3. N 2 K_1 = l^2, K_2 = 3, TO:

2K_1 + 3K_2 = ll J_1 \ge 0 (y_1 = 1) 2J_2 - 2J_3 = -1
   -x - 3x_2 \le 2 = 7
-2x_1 + x_2 = 1
-2x_1 + x_2 = 1
-3x_2 \le 2 = 7
-3x_2 \le 2 = 7
-3x_2 \le 2 = 7
-3x_3 \ge 3(y_3 - y_3)
-3x_4 + x_5 = 1
   -2K_1 + K_2 = 1
Thorpa perenere phoesamberneois zapones: 1 = $; 13 = 5
 y = 5; 1 = \frac{1}{6}; 1 = 0; 1 = \frac{5}{6}
Spobepsez:
\min 4 = pp \cdot \frac{1}{p} + 0 + \frac{5}{p} + 3 = p, 375 + 0, 625 + 3 = 5
```

```
Bapara N4.
   min = - 2x - 5kz + 3kz
                                                                                       Craup-is buo:
      X1+ X2 = 2
                                                                                      K1 + K2 = 2
       3×1+ ×2 ≤ 4
                                                                                   - 34 - X2 = - 4
        K1 + K3 = 5
                                                                                           KI + K3 = 5
   Thousonerreckness beig:
                                                                                                           K+ Kz + Y1 = 2 ~ 21
       K1 + K2 = 2
                                                                                                       -3K1-K2+42=-41-02
     -3K1- K2 = -4
                                                                                                             K1 + K3 + 43 = 5 ~ 13
        K1 + K3 = 5
    De bois embelleran japarea:
   max 9 = 21, -412 +513
         11-312+13 <-2
          11-125-5
           13 53
T. k. 6 nougramement permener J.N4 Xa = 0; Xz = 4; K3 = 5, N
         \chi_1 + \chi_2 = 2 \chi_1 = 3 \chi_2 = 3
   -3k_1 - k_2 = -4 = -3k_1 -
     4 = -5; \lambda_1 = 0; \lambda_2 = 5; \lambda_3 = 3
   Shobepiec:
   max 4= 2.0 - 4.5 + 5.3 = - 20 + 15 = -5.
```