```
Janger Landendin
   w = f(x)=f(x1,...xn)
  Yurus chezu . (x1/x1,...xn) =0 . win
                  Un (X1, ... YW) = 0 (X)
   7. xo=(x1,..x0) moz. m. ycu. nan f(x) upu ycu-un (x), ecch.
35>0 4x & Us (x0) upu bun. (x) f(x)->e(v0)
   9-us Nayream L(x)-f(x)+ > va(x)+ - + > ween(x)
                            2(x) (x) = +(x) (x) + >;
    Mesox you-ue: Tyour f(x) u q:(x) were your. & Us(xo):
                  rg(\frac{\partial x_i}{\partial x_i}) = m
                                     The super you. X1, the bounder repos
                                                             Xm+1,...Xh
   Type xo- in you sucurp. f(x) my bourson (x)
           Torya - I A ... X - cmay m. C. Norpas m.
                               1 2x1 = - 2x - 0
1 2x1 = - - 2x - 0
  (xx)-wroguer: you. cbezu
     dx, dxm bapou veges dxna, dxn
 Dan. you-us. you seems,
Mar ("16: - Spanish ment of p 1/2 (x.)
                 X°, 7; - new acc namypour a nam mengle
                         - hours our conver you show.
  \phiорма, то x^0 — точка строгого условного минимума f при
                                             Muyop -
  выполнении условий (18.13);
2) если d^2L_0(\tilde{x}^0) — отрицательно определённая квадратичная
  \phiорма, то x^0 — точка строгого условного максимума f при
  выполнении условий (18.13);
3) если d^2L_0(\tilde{x}^0) — неопределённая квадратичная форма, то x^0
не является точкой условного экстремума f при выполнении
The n= loxy x3+xy+y3=0
                                                            13xx-0
```

```
Lxx = - - x2+ 76x = -4-86(-1/2) = -28
 2/33= - 42+ 363=- 23
 1 ky = 7 = 8
 dry = - 28 0x-28 dy + 16 dx dy d'x - 21x - 2dy wordy
                                                                1,40 222
                      (-1/2,-1/2) = yee hos
                                                               , our, out.
                                  ? Oulen: (-1/2;-1/2) - ycu: mix
TUP 1-1-4x-by x2-82-8 - yeu chozn
  L=1-4x-8y+7(x1-82-8)
                                                  /X"x=27
 /dx = -4+ 2(2x) =0
                                7 = 4x
                                                  L'yy = -162
                                7=-1/79
 \chi_{xx} = 2\lambda = 0
                                .2/x.=.-1/1y
                                                  1 x ky >0
(x2-842-8-0
                                x = -44
                                                 d2-22(dx-803)
  165-85-8
                                                    Herry organia 270
        (xx) 2xdx-16ydy=0
dxz 8ydx--2dy
 = 7 (465-865) =
    9, A (10x) = - 4 dig
                ۱۰،۲-۱۱ ، میسوس ل-۱۱،۲۱
۱۰-۱۱ ، میسوس ل-۱۱،۲۱
10 U-XY, X2+3=1
   7-xye 7(x2 y)
                                                             \left(\frac{1}{57}, \frac{1}{52}\right), \left(-\frac{1}{52}, -\frac{1}{52}\right),
                                             x = 29
                                7--A/5X
    1 X = 9+27x = 0
                                             x==115
                                7-x/2y
                                                              (\frac{1}{52}, \frac{1}{52}) (-\frac{1}{52}, \frac{1}{52})
    \ X' 1 4 = 1 \ X 1 + 0
                                             4-7-1125
                                2x 2y
                                                            7=+ == (+, +cm y=-x)
     /X "= 27
                    dy = 22 dx + 22 dy + 2 dxdy
    d 2 5 = 22
                      \begin{pmatrix} 2\lambda & 1 \\ 1 & 2\lambda \end{pmatrix} \Delta_{\lambda} = 2\lambda \\ \Delta_{1} = 4\lambda^{2} - 1 = 0
     x x y = 1
                                                      ord/(xx)=- (dx2-dy1) - 26 xdy
                  2xdx + 2ydy - = -dx x=9
                                                      462- waren .oup.
                                             2 yu mor.
                                                              · 2 you. win
                   1--1/2-4 6x
                                              (+1,+1) (+1,+1)
```

Dp. 4-2x2412xy4y2