```
f(x,y) = x1 -1xy +2x 0 = x = 3 0 = y = 2
        fx = 2x - 2y = 0 fy = 2-2x = 0 2x=2 x=1 2(1)-2y=0
                                                                 2y = 2 7=1
        Punto critico = f(1)) = (1) - 2(1)(1) + e(1) = 1 -2 + 2 = 1
       Ic1,1) = 1
                                                             04 + 43
                  04461
        fco, y) = 2y f(3, y) = 9 - 6y + 2y
                                                     f(x,0)=x1 f(x,2)=x1-4x1
                                = 9-4y
        max = f(0,21=4
                                                     mex = f(3,0) = 9 man = f(0,2) = 4
                             max - f(3,0)=9
        min = f(0,0) = 0
                                                     min = fc0,01=0 min=fc2,21=0
                               min = fc3,2) = 1
   | max = f(30) = 9
    nin = f(0,0) = f(2,1) = 0
 13: f(x,y): x2 + 2y2 S(x,y)= x2 1 x2 = 1
   \nabla f = \begin{bmatrix} 21 \\ 4y \end{bmatrix} \qquad \nabla g = \begin{bmatrix} 2x \\ 2y \end{bmatrix}
                                        7f=275
                                                       2x = 22x
                                                      4y = 22y
                                                       22+36=1
 λει : γ =0 χ²=1 : x= +1
 1.1) [(1,0) =1
 1.2) f(-1,6)= 1
λ=1 : , λ=+1
21) f(0,1) = 2
2 21 f(0,-1) = 2
Maximos
                Minimos
F(0,1) = 2
                 f(1,0)=1
+(0,-1)=2
                 f(-1,01=1
```