```
W5 Q1
f(x,y) = 3y2-2x2+2x
Flud max/min on x2+y2=1
g(x,y) = x^2 + y^2 - |
\nabla f = (-4x+2, 6y) \quad \nabla g = (2x, 2y)
Vf= > Vg
   λ=-1·
-4(-1)+2= λ2(-1)
                                  6 = -2\lambda
                         Cossible pts: (1,0), (-1,0)
 Case 2, 470
① 6y = 2\lambda y

3 = \lambda

① -4 \times +2 = (3)2 \times
```