```
8:

f(x,y) = x^5 - 3xy + 4y^2 \overline{u} = (1, \pi/6)

0u f(x)y) = f_{x}(x,y) (os (\pi/6) + f_{y}(x,y) Sin (\pi/6)

f_{x} = 3x^2 - 3y f_{y} = 8y - 3x Gos (\pi/6) = 0.866

Sin (\pi/6) = 1/2
```

$$= 2.598x^2 - 2598y + 4y - 1.5x$$