

Weekly test #5

Name:

Surname:

Exercise 1

Describe the domain $D_f \subset \mathbb{R}^2$ of the following function:

$$f(x, y) = \frac{1}{\sqrt{4 - x^2 - y^2}}$$

Write your solution here:

Exercise 2

Find all the stationary points of the following function

$$f(x, y) = \ln(4 + x^2 + y^2)$$

Write your solution here:

Exercise 3

Give the definition of Quadratic Form