

Weekly test #1

Name:

Surname:

Exercise 1

Calculate the following indefinite integral:

$$\int (x^3 + 1) \cos(x^4 + 4x) dx .$$

Write your solution here:

Exercise 2

Calculate the following definite integral:

$$\int_0^1 \log(x + 1) dx .$$

Write your solution here:

Exercise 3

State the Second Fundamental Theorem of Calculus