

# first fundamental theorem of calculus example

**first fundamental theorem of calculus example** introduces a fundamental concept in calculus that connects differentiation and integration, showcasing how these two core operations are intertwined. This theorem is pivotal for understanding the relationship between the derivative of a function and the area under its curve. In this article, we will explore the first fundamental theorem of calculus in detail, starting with its definition, followed by various examples, and applications that illustrate its significance in mathematical analysis. We will also discuss its implications and provide practical examples that help solidify the concept.

To facilitate your understanding, we will outline our discussion in the following Table of Contents.

- Definition of the First Fundamental Theorem of Calculus
- Understanding the Components
- Example of the First Fundamental Theorem of Calculus
- Applications of the First Fundamental Theorem of Calculus
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## Definition of the First Fundamental Theorem of Calculus

The first fundamental theorem of calculus states that if  $f$  is a continuous real-valued function defined on the interval  $[a, b]$ , and  $F$  is an antiderivative of  $f$  on that interval, then the following relationship holds:

$$\int_a^b f(x) \, dx = F(b) - F(a)$$

This theorem provides a powerful link between the process of integration, which calculates the area under a curve, and differentiation, which measures the rate of change of a function. Essentially, it allows us to evaluate definite integrals through antiderivatives, streamlining the computation process.

# Understanding the Components

To grasp the first fundamental theorem of calculus fully, it is essential to understand its key components: continuity, antiderivatives, and definite integrals.

## Continuity

Continuity of the function  $f$  on the interval  $[a, b]$  is crucial for the theorem to hold. A function is continuous if there are no breaks, jumps, or holes in its graph over the given interval. This property ensures that the area under the curve can be accurately computed.

## Antiderivatives

An antiderivative of a function  $f$  is another function  $F$  such that  $F'(x) = f(x)$ . In other words, differentiating  $F$  returns  $f$ . The existence of an antiderivative is guaranteed for continuous functions, enabling us to apply the first fundamental theorem efficiently.

## Definite Integrals

A definite integral, denoted as  $\int_a^b f(x) \, dx$ , represents the net area under the curve of  $f(x)$  from  $x = a$  to  $x = b$ . The evaluation of this integral can be performed using the antiderivative as indicated in the theorem.

## Example of the First Fundamental Theorem of Calculus

To illustrate the first fundamental theorem of calculus, consider the function  $f(x) = 3x^2$ . We will compute the definite integral of  $f(x)$  from  $x = 1$  to  $x = 4$ .

### Step 1: Find the Antiderivative

First, we need to find the antiderivative  $F(x)$  of  $f(x)$ :

$$F(x) = \int 3x^2 \, dx = x^3 + C$$

where  $C$  is the constant of integration, which we can ignore for definite integrals.

## Step 2: Evaluate the Definite Integral

Next, we evaluate the definite integral:

$$\int_1^4 3x^2 \, dx = F(4) - F(1)$$

Calculating  $F(4)$  and  $F(1)$ :

$$F(4) = 4^3 = 64$$

$$F(1) = 1^3 = 1$$

Thus, we have:

$$\int_1^4 3x^2 \, dx = 64 - 1 = 63$$

This result indicates that the area under the curve  $f(x) = 3x^2$  from  $x = 1$  to  $x = 4$  is 63 square units.

## Applications of the First Fundamental Theorem of Calculus

The first fundamental theorem of calculus has numerous applications across various fields such as physics, engineering, and economics. Here are some notable applications:

- **Calculating Areas:** The theorem simplifies the process of finding areas under curves, essential in geometry and physical applications.
- **Physics:** In physics, it is used to determine displacement from velocity functions, linking motion and integration.
- **Economics:** In economics, it aids in calculating consumer and producer surplus by integrating demand and supply functions.
- **Probability:** In probability, it helps in finding the cumulative distribution function from the probability density function.

Each of these applications demonstrates the theorem's versatility and importance in

mathematical analysis.

## Common Misconceptions

Several common misconceptions surround the first fundamental theorem of calculus. Understanding these can clarify its application and significance.

### Misconception 1: It Only Applies to Polynomials

While polynomials are commonly used in examples, the first fundamental theorem of calculus applies to all continuous functions, including trigonometric, exponential, and logarithmic functions.

### Misconception 2: The Constant of Integration Matters

In definite integrals, the constant of integration  $(C)$  cancels out, making it unnecessary for the evaluation. The focus is solely on the values of the antiderivative at the endpoints.

### Misconception 3: Integration and Differentiation Are Separate

The first fundamental theorem of calculus clearly illustrates that integration and differentiation are inverse processes. Understanding this relationship is crucial for mastering calculus.

## Conclusion

The first fundamental theorem of calculus example highlights a critical connection in mathematics: how integration and differentiation are related. By demonstrating the process of finding antiderivatives and evaluating definite integrals, we see its application across various fields. This theorem not only simplifies computations but also deepens our understanding of the behavior of functions and their areas under curves. By grasping this fundamental concept, students and professionals can tackle more complex problems in calculus and its applications.

### Q: What is the first fundamental theorem of calculus?

A: The first fundamental theorem of calculus states that if a function  $(f)$  is continuous on an interval  $([a, b])$ , and  $(F)$  is an antiderivative of  $(f)$ , then the integral of  $(f)$  from  $(a)$  to  $(b)$  equals  $(F(b) - F(a))$ .

## **Q: How do you find the antiderivative of a function?**

A: To find the antiderivative of a function, you determine a function  $(F)$  such that its derivative  $(F')$  equals the original function  $(f)$ . This usually involves applying rules of integration.

## **Q: Can the first fundamental theorem be applied to non-continuous functions?**

A: No, the first fundamental theorem of calculus requires that the function  $(f)$  be continuous on the interval of integration to ensure that the area under the curve can be accurately computed.

## **Q: What are some practical applications of the first fundamental theorem of calculus?**

A: The theorem is used in various fields including physics for calculating displacement from velocity, in economics for determining consumer surplus, and in probability for deriving cumulative distribution functions.

## **Q: What is the difference between definite and indefinite integrals?**

A: A definite integral calculates the net area under a curve between two specific points and results in a numerical value, while an indefinite integral represents a family of functions and includes a constant of integration.

## **Q: Why is the constant of integration ignored in definite integrals?**

A: The constant of integration is ignored in definite integrals because it cancels out when calculating  $(F(b) - F(a))$ , making it irrelevant to the final area calculation.

## **Q: What is an example of a function where the first fundamental theorem applies?**

A: The first fundamental theorem applies to any continuous function, such as  $(f(x) = x^2)$ , where you can find the area under the curve between any two points by determining its antiderivative.

## **Q: How does this theorem relate to the concept of area?**

A: The first fundamental theorem of calculus relates integration to area by allowing the computation of the area under a curve through the evaluation of an antiderivative at

specific bounds.

## Q: Are there any limitations to the first fundamental theorem of calculus?

A: The primary limitation is that it only applies to continuous functions. If a function has discontinuities, the theorem may not hold, and other methods may be required for integration.

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