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in this chapter we will give an introduction to definite and indefinite integrals we will discuss the definition and properties of each type of integral as well as how to compute them including the substitution rule we will give the fundamental theorem of calculus showing the relationship between derivatives and integrals

1 2 basic properties of the definite integral mathematics

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for each of the following properties of definite integrals draw a picture illustrating the concept interpreting definite integrals as areas under a curve for simplicity you may assume that $a \leq c \leq b$ and that $f(x) \geq 0$ give positive values

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5 2 the definite integral 5 3 the fundamental theorem of calculus 5 4 integration formulas and the net change theorem 5 5 substitution 5 6 integrals involving exponential and logarithmic functions 5 7 integrals resulting in inverse trigonometric functions

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in this third part part three of five we cover integrating differential equations techniques of integration the fundamental theorem of integral calculus and difficult integrals

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review the definite integral properties and use them to solve problems what are the definite integral properties sum difference $\int (a + b) dx = a x + b x + C$ $\int (a - b) dx = a x - b x + C$ $\int a g(x) dx = a \int g(x) dx$

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properties of integrals the symbol originated as a stylized letter s in french they call integrals sums we know from

our discussion of riemann sums that definite integrals are just limits of sums because of this it is not surprising that 1 the integral of a sum is the sum of the integrals $\int (f(x) + g(x)) dx = \int f(x) dx + \int g(x) dx$

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the properties of definite integrals can be used to evaluate integrals the area under the curve of many functions can be calculated using geometric formulas the average value of a function can be calculated using definite integrals

1 1 definition of the integral mathematics libretxts

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the interval $a \leq x \leq b$ is called the interval of integration and is also called the domain of integration before we explain more precisely what the definite integral actually is a few remarks actually a few interpretations are in order

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this section is devoted to simply defining what an indefinite integral is and to give many of the properties of the indefinite integral actually computing indefinite integrals will start in the next section

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the definite integral also called riemann integral of a function $f(x)$ is denoted as see integration for symbol and is equal to the area of the region bounded by the curve if the function is positive between $x = a$ and $x = b$ $y = f(x)$ the x axis and the lines $x = a$ and $x = b$

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the key use integration by parts to move the derivative from one function to the other under an integral this form is a bit more complicated in appearance though it is clearer than the $u v$ form as to what is happening

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with line integrals we will be integrating functions of two or more variables where the independent variables now are defined by curves rather than regions as with double and triple integrals we will also investigate conservative vector fields and discuss green's theorem in this chapter

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integration celebration at the main nearly 1 000 members of odu evms and the broader community came out to hilton norfolk the main on june 7 to commemorate the integration of the two institutions the event included the announcement of historic naming gifts remarks from state leaders and appearances from big blue and the odu pep band

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