

$$\int_0^1 \sqrt{1-x^2} \, dx$$

To solve this, we need an anti-derivative

$$F'(x) = \sqrt{1-x^2}$$

There is no obvious anti-derivative for this function. Given the fact that many anti-derivative problems are hard to do, we will be spending a good chunk of this course working out techniques for computing anti-derivatives.

Antiderivative notation

Since we are going to be computing antiderivatives, one of the first things we are going to need is a convenient notation for antidifferentiation. The notation that is commonly used for the operation of antidifferentiation is called the *indefinite integral*.

$$\int f(x) \, dx = F(x) \Leftrightarrow F'(x) = f(x)$$

Antiderivatives we can compute

One way to get a start on the problem of computing antiderivatives is to write down the derivatives of some standard functions and then adjust those formulas to make them antidifferentiation formulas.

$f(x)$	$F(x) = \int f(x) \, dx$
x^n	$\frac{x^{n+1}}{n+1}$
$\frac{1}{x}$	$\ln x $
e^x	e^x
$\cos x$	$\sin x$
$\sin x$	$-\cos x$
$\frac{1}{1+x^2}$	$\tan^{-1} x$

(There is a more extensive list of anti-differentiation formulas on page 406 of the text.) Another useful tool for computing antiderivatives is related to the fact that the derivative of a sum is a sum of derivatives:

$$\int f(x) + g(x) \, dx = \int f(x) \, dx + \int g(x) \, dx$$

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Integration For Calculus, Analysis, And Differential Equations: Techniques, Examples, And Exercises Marat V Markin, 2018-07-13 The book assists Calculus students to gain a better understanding and command of integration and its applications It reaches to students in more advanced courses such as Multivariable Calculus Differential Equations and Analysis where the ability to effectively integrate is essential for their success Keeping the reader constantly focused on the three principal epistemological questions What for Why and How the book is designated as a supplementary instructional tool and consists of The Answers to all the 192 Problems are provided in the Answer Key The book will benefit undergraduates advanced undergraduates and members of the public with an interest in science and technology helping them to master techniques of integration at the level expected in a calculus course

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