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useful for solving indefinite integrals is that the integral of x to the n th power is one divided by $n+1$ times x to the $n+1$ power, all plus a constant term.

Indefinite integrals, step by step examples. Step 1: Add one to the exponent.

Calculus - Integral Calculus

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For example, if our function is $f(x) = 6x$, then our integral and answer will be the following: We've moved the 6 outside of the integral according to the constant rule, and then we integrated the...

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Integration Problems in Calculus: Solutions & Examples ...

Integral Calculus is the branch of calculus where we study about integrals and their properties. Integration is a very important concept which is the inverse process of differentiation. Both the integral calculus and the differential

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calculus are related to each other by the fundamental theorem of calculus. In this article, let us discuss what is integral calculus, why is it used for, its types ...

Integral Calculus - Definition, Formulas, Applications ...

1 - Integral of a power function: $f(x) = x^n$
 $\int x^n dx = \frac{x^{n+1}}{n+1} + c$

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Example: Evaluate the integral $\int x^5 dx$

Solution: $\int x^5 dx = x^{5+1}/(5+1) + c$

$= x^6/6 + c$ - Integral of a function f

multiplied by a constant k : $\int k f(x) dx = k \int f(x) dx$

Example: Evaluate the

integral $\int 5 \sin x dx$ Solution: According to

the above rule

Rules of Integrals with Examples

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Engineering. If $\int_1^{\infty} \frac{1}{x^p} dx$ is a constant of integration, then : Option 1) Option 2)
Option 3) Option 4) ...

Integral Calculus Question and Answers with Solutions

Solution: The function is continuous,
positive, decreasing function on $[1, \infty)$ so
we use the Integral Test: Since $\int_1^{\infty} \frac{1}{x^p} dx$ is a

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convergent integral and so, by the
Integral test, the series is convergent.

Calculus - Integral Test (examples, solutions, videos)

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42 using the fact that the graph of f passes through the point $(1,3)$ you get $3 = 1^4 + 2 + 2 + c$ or $c = -5$. therefore, the desired function is $f(x) = 1^4 + 2 + 2 - 5$

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In this section we will take a look at the second part of the Fundamental Theorem of Calculus. This will show us how we compute definite integrals without using (the often very unpleasant) definition. The examples in this section can all be done with a basic knowledge of indefinite integrals and will

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not require the use of the substitution
rule.

Calculus I - Computing Definite Integrals

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First fundamental theorem of integral
calculus - $A'(x) = f(x)$ for all $x \in [a,b]$,
where f is a continuous function on the
closed interval $[a,b]$. 2 nd fundamental
theorem of integral calculus -

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$\int_a^b f(x) dx = [F(x)]_a^b = F(b) - F(a)$, here f is a continuous function on the closed interval $[a, b]$ F - antiderivative of f .

NCERT Solutions for Class 12 Maths Chapter 7 Integrals ...

Finding the area between two curves in integral calculus is a simple task if you

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are familiar with the rules of integration (see indefinite integral rules). The easiest way to solve this problem is to find the area under each curve by integration and then subtract one area from the other to find the difference between them.

Integrals / Integral Calculus -

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t, u and v are used internally for integration by substitution and integration by parts; You can enter expressions the same way you see them in your math textbook. Implicit multiplication ($5x = 5*x$) is supported. If you are entering the integral from a mobile phone, you can also use **

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E. Solutions to 18.01 Exercises 4.

Applications of integration a/2 $y = 3x$

4B-6 If the hypotenuse of an isosceles
right triangle has length h , then its area
is $h^2/4$. The endpoints of the slice in the

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xy-plane are $y = \pm \sqrt{a^2 - x^2}$, so $h = 2 \sqrt{a^2 - x^2}$. In all the volume is $\int_a^{-a} (h^2/4) dx$
 $= \int_a^{-a} (a^2 - x^2) dx = 4a^3/3 - a^3 - a^3$

Unit 4. Applications of integration

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