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[Antiderivative Cheat Sheet](#)

## CHEAT SHEET

$$D_x \sin u = (\cos u) \frac{du}{dx}$$

$$D_x \cos u = (-\sin u) \frac{du}{dx}$$

$$D_x \tan u = (\sec^2 u) \frac{du}{dx}$$

$$D_x \cot u = (-\csc^2 u) \frac{du}{dx}$$

$$D_x \sec u = (\sec u \tan u) \frac{du}{dx}$$

$$D_x \csc u = (-\csc u \cot u) \frac{du}{dx}$$

$$\int \sin u \, du = -\cos u + C$$

$$\int \cos u \, du = \sin u + C$$

$$\int \tan u \, du = \ln |\sec u| + C$$

$$\int \cot u \, du = \ln |\sin u| + C$$

$$\int \sec u \, du = \ln |\sec u + \tan u| + C$$

$$\int \csc u \, du = \ln |\csc u - \cot u| + C$$

$$\int \sin^2 u \, du = \frac{1}{2} u - \frac{1}{4} \sin 2u + C$$

$$\int \cos^2 u \, du = \frac{1}{2} u + \frac{1}{4} \sin 2u + C$$

$$\int \tan^2 u \, du = \tan u - u + C$$

$$\int \cot^2 u \, du = -\cot u - u + C$$

$$\int \sec^2 u \, du = \tan u + C$$

$$\int \csc^2 u \, du = -\cot u + C$$

$$\int \sec u \tan u \, du = \sec u + C$$

$$\int \csc u \cot u \, du = -\csc u + C$$

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Recall the definitions of the trigonometric functions.  $\tan x = \frac{\sin x}{\cos x}$ ;  $\sec x = \frac{1}{\cos x}$  ...  
Symbolab Derivatives Cheat Sheet Derivative Rules: Power Rule:  $\frac{d}{dx} x^n = n x^{n-1}$  ... Indefinite Integral:  $\int f(x) dx = F(x) + C$  where  $F(x)$  is an anti-derivative of  $f(x)$ . That is, every time we have a differentiation formula, we get an integration formula for nothing. Here is a list of some of them. Derivative Rule. Antiderivative Rule ...

Integrals Definitions Integral: Suppose  $f(x)$  is continuous Anti-Derivative: Divide  $[a, b]$  into  $n$  subintervals of width  $\Delta x$  and choose  $x$  from each interval. Or, find the antiderivative. (integrate) to find area underneath (area under a rate of change graph equals total change). 1st Derivative Test: Tells us max/min, ...

## antiderivative cheat sheet

antiderivative cheat sheet, antiderivative cheat sheet pdf, derivative and antiderivative cheat sheet, derivative antiderivative cheat sheet

function limits, including l'Hopital's rule antiderivatives of polynomials, trig functions, exponentials, and ... Trig Cheat Sheet. Introductory & Intermediate Algebra ... Calculator Grapher Derivatives Integrals Antiderivatives Summations Matrix Limits. ... Mcgraw Hill Connect Statistics Answers Jan 20, 2016 · Z-Scores Worksheet. ... Statistics For Dummies Cheat Sheet Doing your homework in Connect Math ... Integral Calculus Formula Sheet. Derivative Rules: ... Integration Rules:  $\int u^c = \frac{u^{c+1}}{c+1} + C$ , where  $F(x)$  is any antiderivative of  $f(x)$ . Riemann Sums:

## derivative and antiderivative cheat sheet

limits and continuity, antiderivatives and definite integrals, and polynomial ... explanations, a cheat sheet of key formulas, and updated strategies to reflect ... Dec 24, 2020 — So here is the Riemann Sum formula for approximating an integral using  $n$  rectangles. The Riemann sum method is basically integration by parts ... Oct 2, 2012 — Cheat Sheet. The Most Important Derivatives and Antiderivatives to Know The table below shows you how to differentiate and integrate 18 of ...

In other words, the antiderivative is the reverse question to the derivative question. Trigonometric Antiderivatives Formulas.  $\int \sin(x) dx = -\cos(x) + C$ .  $\int \cos(x) dx = \sin(x) + C$  ... Apr 6, 2021 — Your Calc 2 Integral Cheat Sheet pdf are be had in this blog. Calc 2 Integral Cheat Sheet are a topic that is being searched for and liked by ... Jan 23, 2021 — A cheat sheet on Differential Equations is also available on this website. This one page PDF covers summarised theory and the most important ... Here is a list of functions whose derivatives you should stare at long enough to recognize if they come up. (Yes, you can put them on a cheatsheet when exam time ... Worksheet graphic, Trigonometry Cheat sheet Mathematics Unit circle ... Integral Calculus Mathematics Antiderivative Function, curves, angle, white, text png ... Calculus Cheat Sheet. For indefinite integrals drop the limits of integration. Integration by parts formula to convert into an integral involving trig functions'. For indefinite integrals drop the limits of integration... Calculus Cheat Sheet Integrals For the u-substitution to work, you need to replace all variables with  $u$  and ... 167bd3b6fa

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