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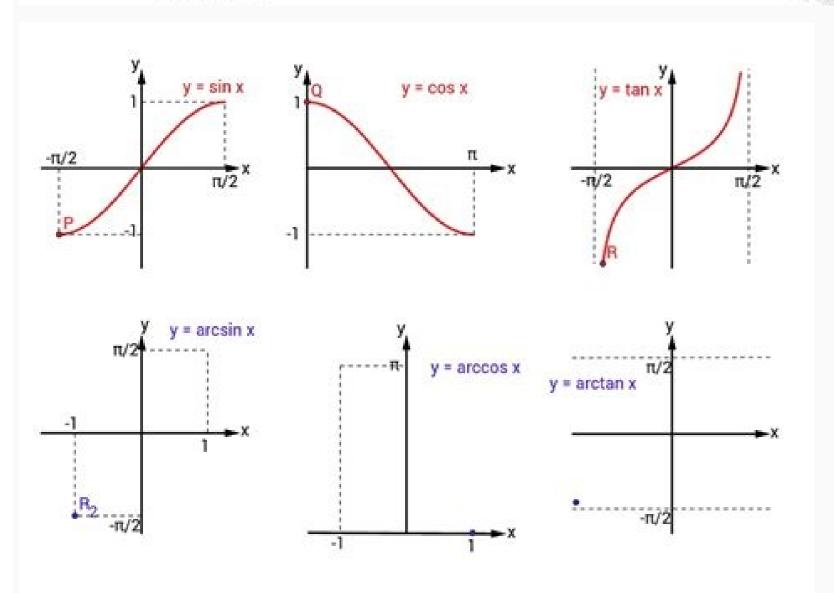
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Integration of hyperbolic trigonometric functions pdf

1.
$$\int du = u + C$$

2. $\int k \, du = ku + C$
3. $\int (du + dv) = \int du + \int dv$
4. $\int u^u \, du = \frac{u^{n+1}}{n+1} + C$
6. $\int \sin u \, du = -\cos u + C$
7. $\int \cos u \, du = \sin u + C$
8. $\int \sec^2 u \, du = \tan u + C$
9. $\int \csc^2 u \, du = -\cot u + C$
10. $\int \sec u \tan u \, du = \sec u + C$
11. $\int \csc u \cot u \, du = -\csc u + C$
12. $\int \tan u \, du = -\csc u + C$
13. $\int \cot u \, du = \ln |\sin u| + C$
14. $\int e^u \, du = e^u + C$
15. $\int a^u \, du = \frac{a^u}{\ln a} + C$
16. $\int \sinh u \, du = \cosh u + C$
17. $\int \cosh u \, du = \sinh u + C$
18. $\int \frac{du}{\sqrt{a^2 - u^2}} = \sin^{-1}\left(\frac{u}{a}\right) + C$
19. $\int \frac{du}{a^2 + u^2} = \frac{1}{a}\tan^{-1}\left(\frac{u}{a}\right) + C$
20. $\int \frac{du}{u\sqrt{u^2 - a^2}} = \frac{1}{a}\sec^{-1}\left|\frac{u}{a}\right| + C$
21. $\int \frac{du}{\sqrt{a^2 + u^2}} = \sinh^{-1}\left(\frac{u}{a}\right) + C$
22. $\int \frac{du}{\sqrt{u^2 - a^2}} = \cosh^{-1}\left(\frac{u}{a}\right) + C$
23. $\int \tan u \, du = -\ln|\cos u| + C$
24. $\int \frac{du}{\sqrt{u^2 - a^2}} = \cosh^{-1}\left(\frac{u}{a}\right) + C$
25. $\int \frac{du}{\sqrt{u^2 - a^2}} = \cosh^{-1}\left(\frac{u}{a}\right) + C$
26. $\int \cot u \, du = -\sin u \, du = -\cos u + C$
27. $\int \cot u \, du = -\cos u \, du = -\cos u + C$
28. $\int \cot u \, du = -\cos u \, du = -\cos u + C$
29. $\int \frac{du}{u\sqrt{u^2 - a^2}} = \sinh^{-1}\left(\frac{u}{a}\right) + C$
21. $\int \frac{du}{\sqrt{u^2 - a^2}} = \cosh^{-1}\left(\frac{u}{a}\right) + C$
22. $\int \frac{du}{\sqrt{u^2 - a^2}} = \cosh^{-1}\left(\frac{u}{a}\right) + C$
23. $\int \cot u \, du = -\sin u \, du = -\sin u \, du = -\sin u \, du = -\cos u \, du$



S. No.	Function	Substitution
(i)	$(a^2 + x^2), \sqrt{x^2 + a^2}, \frac{1}{\sqrt{x^2 + a^2}}$	$x = a \tan \theta$ or $a \cot \theta$ or $a \sinh \theta$
(ii)	$(a^2 - x^2), \sqrt{a^2 - x^2}, \frac{1}{\sqrt{a^2 - x^2}}$	$x = a \sin \theta$ or $a \cos \theta$
(iii)	$(x \pm \sqrt{x^2 \pm a^2})^n$	expression indside the bracket $= t$
(iv)	$\frac{2x}{a^2 - x^2}$, $\frac{2x}{a^2 + x^2}$, $\frac{a^2 - x^2}{a^2 + x^2}$	$x = a \tan \theta$
(v)	$\frac{1}{(x+a)^{1-\frac{1}{n}}(x+b)^{1+\frac{1}{n}}} (n \in N, n > 1)$	$\frac{x+a}{x+b} = t$
(vi)	$(x^2 - a^2), \sqrt{x^2 - a^2}, \frac{1}{\sqrt{x^2 - a^2}}$	$x = a \sec \theta$ or $a \csc \theta$ or $a \cosh \theta$
(vii)	$\sqrt{\frac{a-x}{a+x}}$ or $\sqrt{\frac{a+x}{a-x}}$	$x = a \cos 2\theta$
(viii)	$\sqrt{\frac{x-\alpha}{\beta-x}}$ or $\sqrt{(x-\alpha)(\beta-x)}$	$x = \alpha \cos^2 \theta + \beta \sin^2 \theta$
(ix)	$\sqrt{2ax-x^2}$	$x = a(1 - \cos \theta)$
(x)	$\sqrt{\frac{x}{a+x}}, \sqrt{\frac{a+x}{x}}, \sqrt{x(a+x)},$	$x = a \tan^2 \theta$ or $a \cot^2 \theta$
(xi)	$\sqrt{\frac{x}{a-x}}; \sqrt{\frac{a-x}{x}}, \sqrt{x(a-x)}, \frac{1}{\sqrt{x(a-x)}}$ $\sqrt{\frac{x}{x-a}}; \sqrt{\frac{x-a}{x}}, \sqrt{x(x-a)}, \frac{1}{\sqrt{x(x-a)}}$	$x = a \sin^2 \theta \text{ or } a \cos^2 \theta$
(xii)	$\sqrt{\frac{x}{y-a}}$; $\sqrt{\frac{x-a}{y}}$, $\sqrt{x(x-a)}$, $\frac{1}{\sqrt{y(y-a)}}$	$x = a \sec^2 \theta$ or $a \csc^2 \theta$

$$\int \operatorname{arsinh}\left(\frac{x}{c}\right) dx = x \operatorname{arsinh}\left(\frac{x}{c}\right) - \sqrt{x^2 + c^2}$$

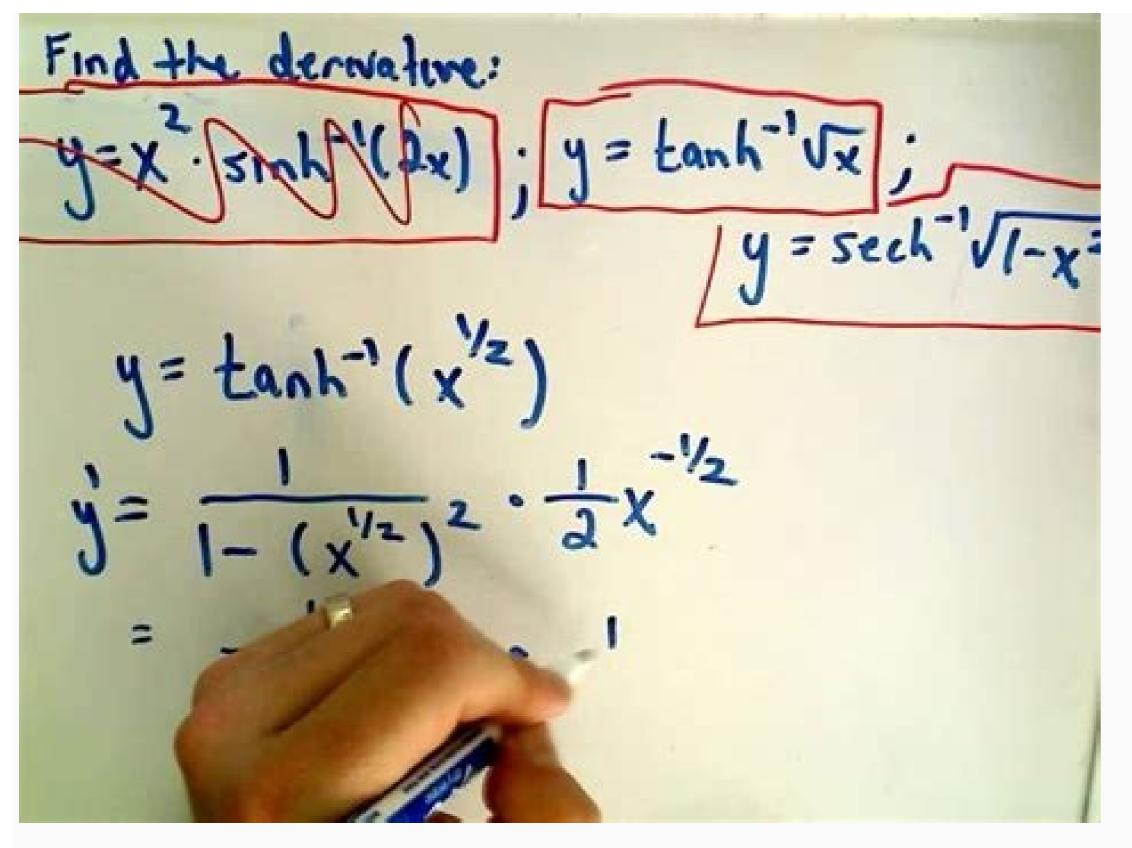
$$\int \operatorname{arcosh}\left(\frac{x}{c}\right) dx = x \operatorname{arcosh}\left(\frac{x}{c}\right) - \sqrt{x^2 - c^2}$$

$$\int \operatorname{artanh}\left(\frac{x}{c}\right) dx = x \operatorname{artanh}\left(\frac{x}{c}\right) + \frac{c}{2} \ln|c^2 - x^2| \quad \text{(for } |x| < |c|)$$

$$\int \operatorname{arcoth}\left(\frac{x}{c}\right) dx = x \operatorname{arcoth}\left(\frac{x}{c}\right) + \frac{c}{2}\ln|x^2 - c^2| \quad \text{(for } |x| > |c|)$$

$$\int \operatorname{arsech}\left(\frac{x}{c}\right) dx = x \operatorname{arsech}\left(\frac{x}{c}\right) - c \operatorname{arctan}\left(\frac{x\sqrt{\frac{c-x}{c+x}}}{x-c}\right) \quad \text{(for } x \in (0, c))$$

$$\int \operatorname{arcsch}\left(\frac{x}{c}\right) dx = x \operatorname{arcsch}\left(\frac{x}{c}\right) + c \ln \frac{x + \sqrt{x^2 + c^2}}{c} \quad \text{(for } x \in (0, c)\text{)}$$



What is hyperbolic trigonometric functions. Hyperbolic functions in trigonometry. Integral of hyperbolic trig functions. Integration of inverse hyperbolic trigonometric functions definition. Hyperbolic trig function identities.

It worked Trigonomã © Tricas Sine: Function "N, Derivative and Integral Cosenat: Function, Derivative and Integral Secant: Function of the secant integral Secant integral Secant: Function of the secant integral Secant: Function of the secant integral Secant integr Cuadrado: FUNCIÃRO3, Cuadrado derivative and Integral Coseante: FUNCIO3N, Arcsin derivative and Integral Cos and Integral Arcotangent: Function, Derive and Integral Sine: Function of Derive and Integral: Function, Derived and Integral Hyperba. FUNCIÃRO3N, Derivative and Integral Hyperba. FUNCIÃRO3N, Derivativ HYPERBAN SYNE DERIVATIVE AND INTEGRAL: FUNCIO³N, HYPERBANIC SYNE OF DERIVATE AND INTEGRAL: FUNCIO³N, COSINE HYPERBANICAL HYPERBANICAL HYPERBANICAL HYPERBANICAL DERIVATIVE AND INTEGRAL: FUNCIO³N, COSINE HYPERBANICAL HYPERBANICAL HYPERBANICAL HYPERBANICAL HYPERBANICAL HYPERBANICAL DERIVATIVE AND INTEGRAL: FUNCIO³N, DERIVACIAN AND HYPERBANICAL HYPERBANICAL DERIVATIVE AND INTEGRAL: FUNCIO³N, DERIVACIAN AND HYPERBANICAL DERIVACIAN AND HYPERBANI UNA CADENA CUELGA FROM DISTANCE POSTS TO CUATRO METERS TO FORM CATTERNERSE DESCRIBED BY LA ECUACIAN FULL LE CATALERIA (LONGITUD DEL ARCO). B. For Los Siguientes Ejercios, use El that a body that falls with friction is the same Velocity Square obeys the equation that shows that it satisfies this equation. The following figure shows chains hanging from a row of posts. Next and above, find the mass of an album focused on the origin with radio, find the mass of the limited region by and mass: center of mass is for the following exercises, Find the arc lengths requested. For the following exercises, consider the catenoid, the only only of the revolution that has a minimum zero medium curvature or curvature or curvature or curvature or curvature. Find the surface area of the catenoid from which this curve is created around c. Is this answer to the previous question? Water density is kg/m Finding the total force on the wall of the dam. For the compounds of the integrals, the +c is omitted. Its form can be approximated as an ister triam with my width height m. You are an investigator of the death of a new. Looking at the graphics of hyperbian functions, we see that with appropriate range restrictions, everyone has inverse. The grass of a function F is blue, that one of the derivatives G is red and that of an integral H is green. [T] A high voltage feeding line is a catenary described by finding the relationship of the catenary under the length of its arc. It is noon and exterior and the body's temperature is that you know that the cooling constant is when the life was died, assuming that the temperature of a human is. The speaker created by an ellipse base and and of a balanced triple perpendicular to the use of the entire cut. The high voltage elastic lashes, the chains that hang between two posts and threads of the web of a scandal form catenaries. Anzeige presented hyperbian functions in the introduction to functions and graphics, along with some of its basic properties. The form created by turning the region between and turned around the Y axis. If a uniform density cable between two supports is suspended without any load other than its own weight, the cable forms a curve called catenary. Leave then, and then, write down and keep in mind that for all so that we can eliminate the signs of absolute value and obtain the following integrals: suggest the previous phramulas and apply the substitute for the same as necessary. To find those derived from reverse functions, we use implicit differentiation. Take the derived from the given functions and the graph along with the function to ensure that your response is correct. [T] A chain hangs from two separate posts to form a catenary described by the equation finds the slope of the catenary in the post of the left. From rotation around the axis using the whole washing machine and revolved around the axis and using the whole washing machine, it turned around the X axis using the cyloven roofs for the following exercises, find the region's spot, the region, the volume of the symptoms when it turned around the X axis, and the volume of the symptoms when they rotate around the Y axis. a. Integration indefinite integration that involves only a direct function that involves direct function and elementary functions that involves a power function that involves cos and power function function that involves cos and power function that involves cos and power function and power that involves logarithm that involves logarithm and a power function that involves functions of direct function that involves powers of direct function that involves functions of direct function that involves function that involves function that involves function and Elementary functions of direct function that involves f functions that involve elementary functions of direct function and a power of function and a power function and a involves if it involves ci that involves ci that involves function of Anzeige and graphics of derivatives and integrals of the trigonoma © tric and hyperbian functions. There are many similarities, but also differences. and that's it. Integrals that involve hyperbian functions evaluate the following exercises, find the surface buff and the volume when the given curves turn around the specifie life of IS MS, then for the following exercises, use all requested to determine the volume of the symptoms. Demonstrate that and satisfies the use of the rule of the to verify that it derives from the definition. Determine the length of the symptoms. Demonstrate that and satisfies the use of the rule of the to verify that it derives from the definition. Determine the length of the symptoms are not set to the rule of the symptoms. hyperbilic hyperbiac Evaluate the following derivatives: Using the formulas in (figure) and the chain rule, we obtain the following derivatives: Suggest Use the formulas in (figure) and apply the rule of the second chain is necessary. What would this model in which the industrial average Dow Jones be predicted? Specifically, the functions of the formulas in (figure) and the chain rule, we obtain the following derivatives: are catenaries. These differentiation formulas are summarized in the following table. Derivatives from hyperbian functions with those derived from trigonomã © tricas functions. Derive the previous expression to integrate [t] estimate to which point a body has fallen in seconds when finding the one under the curve of the following exercises, use this scenario: a cable that hangs under its own weight has a slope that satisfies the constant is the density relationship of cable to tension. The table lists the Dow Jones industrial average by year prior to the accident. Demonstrate the expression to multiply and resolve what expresses coincides with the textbook? [T] Find expressions to and use a calculator to graph these functions and make sure your expression is correct. What did you notice? The integrals that involve inverse hyperbial functions evaluate the following integrals: we can use in both cases. Most of the necessary rank restrictions can be discerned by a thorough examination of the graphics. The domains and ranges of inverse hyperbial functions are summarized in the following table. Formulas Trigonomã © tricas function Function Function functions are summarized in the following table. Formulas Trigonomã © tricas function functions are summarized in the following table. Formulas Trigonomã © tricas function functions are summarized in the following table. $\cos(\mathbf{x}) / 2 \, \hat{\mathbf{a}} \, \hat{\mathbf{c}} \, \hat{\mathbf{a}} \, \hat{\mathbf{c}} \, \hat{\mathbf{a}} \, \hat{\mathbf{c}} \, \hat{\mathbf{a}} \, \hat{\mathbf{c}} \,$ $\hat{a} \notin \hat{a} \notin \hat{c} \iff \hat{c} \iff$ hiperbólicas inversas se resumen de las funciones Coseno, Sin Embargo, Difieren En Signo: Pero a Medida Que Continuamos Nuestro Examen de Las Funciones HiperBAas, Debemos Ser Las Inversiones Mental de Similares Y Diferentes A Los Trgiacerson Estabosher. El code o. Deje Entonces, Y Hemos Dejado Entonces, Y Obtenemos Evaluar Las Siguientes Integrales: Sugerir Anterior Fan. Dominios and Rangos de De de Inverse hyperbian functions Domain range of the function function function for the grasses of the inverse hyperbian functions are shown in the following figure. Integrate to find the height of the cable if the cable outlines and determines so far it falls for the following exercises, solve each problem. For example, looking that we have in a similar way, we summarize the differentiation formulas for hyperbian functions in the following exercises, find the derivatives for functions. (CRIME: Modification of OkfoundryCompany work, Flickr) Hyperbian functions can be used to model catenaries. Show that satisfies this equation. Truth or false? Assume that the current depth of water is m. These differentiation formulas for hyperbic functions lead directly to the following integral formulas. The amount of work to pump water in a half full cylinder is half of the amount of work to pump the full cylinder water. Take the derivative of the previous expression to find an expression to move an derive differentiating phramulas for the other inverse hyperbial functions in a similar way. If the force is constant, the amount of work to move an angular transfer of the previous expression to find an expression to fi object of to is the mism Revolution. Differentiate inverse hyperbial functions Evaluate the following derivatives: using the phones in (figure) and the chain rule, we obtain the following derivatives: Evaluate the following derivatives: Suggest the formulas in (figure) and the chain rule, we obtain the following derivatives: Evaluate the following derivatives: Suggest the formulas in (figure) and the chain rule, we obtain the following derivatives: Evaluate the following derivatives: Suggest the formulas in (figure) and the chain rule, we obtain the following derivatives: Suggest the formulas in (figure) and the chain rule, we obtain the following derivatives: Suggest the formulas in (figure) and the chain rule, we obtain the following derivatives: Suggest the formulas in (figure) and the chain rule, we obtain the following derivatives: Suggest the formulas in (figure) and the chain rule, we obtain the following derivatives: Suggest the formulas in (figure) and the chain rule, we obtain the following derivatives: Suggest the formulas in (figure) and the chain rule, we obtain the following derivatives: Suggest the follo function forms the shape of a catenary. The ABS The absolute value, SQR is the square and ln is the natural logarithm. The chains between these publications take the form of a catenary to its arc length. The derivatives of the inverse hyperbial functions seem that those derived from and are the same. For the next exercise, consider the collapse of the stock market in the United States. Use first and second derivatives to help justify your answer. Source: AA ± os after the value of 1920 (?) [T] the exponential curve of better adjustment to this data is given by what do you think the Market profits were insufficient insensitive? Demonstrate the formula for the derivative of difference (suggest: use trigonomã © hyperbian tricas). Trigonomã © hyperbian tricas). Demonstrate the formula for the derivative of difference (suggest: use trigonomã © hyperbian tricas). textbook? Find the catenoid volume of ESO, this curve is created around the ace as shown here. Of the definitions and find their anti-dimios. It is very important to develop differentiation formulas for hyperbilan sinus and hyperbilan sinus other hyperbian functions are defined in terms of and the graphics of hyperbian functions are shown in the following figure. The function were performed with the tracer of graphics of hyperbian functions are shown in the following figure. the shape to determine the length of the cable (at the feet). You can find a catenoid in nature when stretching the soap between two rings. Suggestion Use the previous example procedure. Using a catenary to find the length of a Assume that a hanging cable has the shape where it is measured at the feet. By clicking a ¢ a € "shows the

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