9/22/2019 Table of Integrals



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## Table of Integrals

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### Power of x.

$$\int_{(n \neq -1)}^{x^n} \frac{dx}{|x^n|} = x^{(n+1)} / (n+1) + C$$

$$\int_{(n \neq -1)}^{1/x} \frac{dx}{|x^n|} = |x^n| + C$$

## Exponential / Logarithmic

### Trigonometric

# Trigonometric Result

# Inverse Trigonometric

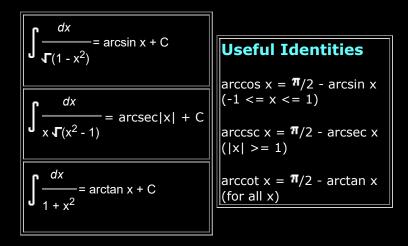
$$\int \operatorname{arcsin} x \, dx = x \arcsin x + \int (1-x^2) + C$$

$$\int \operatorname{arccsc} x \, dx = x \operatorname{arccos} x - \int (1-x^2) + C$$

$$\int \operatorname{arctan} x \, dx = x \arctan x - (1/2) \ln(1+x^2) + C$$

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## Inverse Trigonometric Result



## Hyperbolic

sinh x dx = cosh x + C Proof	$\int \operatorname{csch} x  dx = \ln  \tanh(x/2)  + C$ Proof
$\int \cosh x  dx = \sinh x + C$ $\frac{\text{Proof}}{\text{Proof}}$	$\int \operatorname{sech} x  dx = \arctan \left( \sinh x \right) + C$
$\int \tanh x  dx = \ln \left( \cosh x \right) + C$ Proof	$\int \coth x  dx = \ln  \sinh x  + C$ $\underline{Proof}$

Click on Proof for a proof/discussion of a theorem.

To solve a more complicated integral, see <a href="http://integrals.wolfram.com/">The Integrator</a> at <a href="http://integrals.wolfram.com/">http://integrals.wolfram.com/</a>

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