

Round

View the online version at

● functions.wolfram.com

Download the

● PDF File

Notations

Traditional name

Nearest integer function

Traditional notation

$\lfloor z \rfloor$

Mathematica StandardForm notation

Round[z]

Primary definition

04.03.02.0001.01

$$\lfloor x \rfloor = n /; x \in \mathbb{R} \wedge n \in \mathbb{Z} \wedge |x - n| < \frac{1}{2}$$

04.03.02.0002.01

$$\lfloor z \rfloor = \lfloor \operatorname{Re}(z) \rfloor + i \lfloor \operatorname{Im}(z) \rfloor$$

04.03.02.0003.01

$$\left\lfloor n + \frac{1}{2} \right\rfloor = n /; \frac{n}{2} \in \mathbb{Z}$$

04.03.02.0004.01

$$\left\lfloor n + \frac{1}{2} \right\rfloor = n + 1 /; \frac{n + 1}{2} \in \mathbb{Z}$$

For real z , the function $\lfloor x \rfloor$ is the integer closest to z (if $z \neq \pm \frac{1}{2}, \pm \frac{3}{2}, \dots$).

Examples: $\lfloor 3.2 \rfloor = 3$, $\lfloor 3 \rfloor = 3$, $\lfloor -0.2 \rfloor = 0$, $\lfloor -2.3 \rfloor = -2$, $\lfloor \frac{2}{3} \rfloor = 1$, $\lfloor -\pi \rfloor = -3$, $\lfloor -4 - \frac{5}{3}i \rfloor = -4 - 2i$, $\lfloor \frac{5}{2} \rfloor = 2$,
 $\lfloor \frac{7}{2} \rfloor = 4$.

Specific values

Specialized values

04.03.03.0001.01

$$\lfloor x \rfloor = x /; x \in \mathbb{Z}$$

04.03.03.0002.01

$$\lfloor i x \rfloor = i x /; x \in \mathbb{Z}$$

04.03.03.0003.01

$$\lfloor x + i y \rfloor = \lfloor x \rfloor + i \lfloor y \rfloor /; x \in \mathbb{R} \wedge y \in \mathbb{R}$$

Values at fixed points

04.03.03.0004.01

$$\lfloor 0 \rfloor = 0$$

04.03.03.0005.01

$$\lfloor 1 \rfloor = 1$$

04.03.03.0006.01

$$\lfloor -1 \rfloor = -1$$

04.03.03.0007.01

$$\lfloor i \rfloor = i$$

04.03.03.0008.01

$$\lfloor -i \rfloor = -i$$

04.03.03.0009.01

$$\left\lfloor \frac{23}{10} \right\rfloor = 2$$

04.03.03.0010.01

$$\lfloor -3 \rfloor = -3$$

04.03.03.0011.01

$$\lfloor -\pi \rfloor = -3$$

04.03.03.0012.01

$$\left\lfloor -\frac{27}{10} \right\rfloor = -3$$

04.03.03.0013.01

$$\lfloor -3.4 \rfloor = -3$$

04.03.03.0014.01

$$\left\lfloor \frac{23}{10} - i e \right\rfloor = 2 - 3 i$$

04.03.03.0015.01

$$\left\lfloor \frac{5}{2} \right\rfloor = 2$$

04.03.03.0016.01

$$\left\lfloor \frac{7}{2} \right\rfloor = 4$$

Values at infinities

04.03.03.0017.01

$$\lfloor \infty \rfloor = \infty$$

04.03.03.0018.01

$$\lfloor -\infty \rfloor = -\infty$$

04.03.03.0019.01
 $[i \infty] = i \infty$

04.03.03.0020.01
 $[-i \infty] = -i \infty$

04.03.03.0021.01
 $[\infty] = \infty$

General characteristics

Domain and analyticity

$[z]$ is a nonanalytical function; it is a piecewise constant function which is defined over the whole complex z -plane.

04.03.04.0001.01
 $z \rightarrow [z] :: \mathbb{C} \rightarrow \mathbb{C}$

Symmetries and periodicities

Parity

$[z]$ is an odd function.

04.03.04.0002.01
 $[-z] = -[z]$

Mirror symmetry

04.03.04.0003.01
 $[z] = \overline{[z]}$

Periodicity

No periodicity

Sets of discontinuity

The function $[z]$ is a piecewise constant function with unit jumps on the lines $\text{Re}(z) + \frac{1}{2} = k \vee \text{Im}(z) + \frac{1}{2} = l$; $k, l \in \mathbb{Z}$.

The function $[z]$ is continuous from the right on the intervals $(2k - \frac{1}{2} - i\infty, 2k - \frac{1}{2} + i\infty)$, $k \in \mathbb{Z}$, and from the left on the intervals $(2k + \frac{1}{2} - i\infty, 2k + \frac{1}{2} + i\infty)$, $k \in \mathbb{Z}$.

The function $[z]$ is continuous from above on the intervals $(-\infty + 2ik - \frac{i}{2}, \infty + 2ik - \frac{i}{2})$, $k \in \mathbb{Z}$, and from below on the intervals $(-\infty + 2ik + \frac{i}{2}, \infty + 2ik + \frac{i}{2})$, $k \in \mathbb{Z}$.

04.03.04.0004.01

$$DS_z([z]) = \left\{ \left\{ \left(2k - \frac{1}{2} - i\infty, 2k - \frac{1}{2} + i\infty \right), -1 \right\} /; k \in \mathbb{Z} \right\}, \left\{ \left\{ \left(2k + \frac{1}{2} - i\infty, 2k + \frac{1}{2} + i\infty \right), 1 \right\} /; k \in \mathbb{Z} \right\},$$

$$\left\{ \left\{ \left(2ik - \frac{i}{2} - \infty, 2ik - \frac{i}{2} + \infty \right), -i \right\} /; k \in \mathbb{Z} \right\}, \left\{ \left\{ \left(2ik + \frac{i}{2} - \infty, 2ik + \frac{i}{2} + \infty \right), i \right\} /; k \in \mathbb{Z} \right\}$$

04.03.04.0005.01

$$\lim_{\epsilon \rightarrow +0} \lfloor z + \epsilon \rfloor = \lfloor z \rfloor /; \frac{1}{4} (2 \operatorname{Re}(z) + 1) \in \mathbb{Z}$$

04.03.04.0006.01

$$\lim_{\epsilon \rightarrow +0} \lfloor z - \epsilon \rfloor = \lfloor z \rfloor /; \frac{1}{4} (2 \operatorname{Re}(z) - 1) \in \mathbb{Z}$$

04.03.04.0007.01

$$\lim_{\epsilon \rightarrow +0} \lfloor z + \epsilon \rfloor = \lfloor z \rfloor + 1 /; \frac{1}{4} \operatorname{Re}(2z - 1) \in \mathbb{Z}$$

04.03.04.0008.01

$$\lim_{\epsilon \rightarrow +0} \lfloor z - \epsilon \rfloor = \lfloor z \rfloor - 1 /; \frac{1}{4} (2 \operatorname{Re}(z) + 1) \in \mathbb{Z}$$

04.03.04.0009.01

$$\lim_{\epsilon \rightarrow +0} \lfloor z + i \epsilon \rfloor = \lfloor z \rfloor /; \frac{1}{4} (2 \operatorname{Im}(z) + 1) \in \mathbb{Z}$$

04.03.04.0010.01

$$\lim_{\epsilon \rightarrow +0} \lfloor z - i \epsilon \rfloor = \lfloor z \rfloor /; \frac{1}{4} (2 \operatorname{Im}(z) - 1) \in \mathbb{Z}$$

04.03.04.0011.01

$$\lim_{\epsilon \rightarrow +0} \lfloor z + i \epsilon \rfloor = \lfloor z \rfloor + i /; \frac{1}{4} (2 \operatorname{Im}(z) - 1) \in \mathbb{Z}$$

04.03.04.0012.01

$$\lim_{\epsilon \rightarrow +0} \lfloor z - i \epsilon \rfloor = \lfloor z \rfloor - i /; \frac{1}{4} (2 \operatorname{Im}(z) + 1) \in \mathbb{Z}$$

Series representations

Exponential Fourier series

04.03.06.0001.01

$$\lfloor x \rfloor = x + \frac{1}{\pi} \sum_{k=1}^{\infty} \frac{(-1)^k \sin(2\pi k x)}{k} /; x \in \mathbb{R} \wedge x + \frac{1}{2} \notin \mathbb{Z}$$

Other series representations

04.03.06.0002.01

$$\left\lfloor \frac{n+2m}{2n} \right\rfloor = \frac{m}{n} + \frac{1}{2n} \sum_{k=1}^{n-1} \sin\left(\frac{2\pi k m}{n}\right) \cot\left(\frac{\pi k}{n}\right) + \frac{1}{2} /; m \in \mathbb{Z} \wedge n \in \mathbb{Z} \wedge \frac{m}{n} \notin \mathbb{Z} \wedge n > 1$$

Transformations

Transformations and argument simplifications

Argument involving basic arithmetic operations

04.03.16.0001.01

$$\lfloor -z \rfloor = -\lfloor z \rfloor$$

04.03.16.0002.01

$$\lfloor i z \rfloor = i \lfloor z \rfloor$$

04.03.16.0003.01

$$\lfloor -i z \rfloor = -i \lfloor z \rfloor$$

04.03.16.0004.01

$$\lfloor z + n \rfloor = \lfloor z \rfloor + n ; \frac{n}{2} \in \mathbb{Z} \vee \frac{n-1}{2} \in \mathbb{Z} \wedge z - \frac{1+i}{2} \notin \mathbb{Z} \wedge z - \frac{1}{2} \notin \mathbb{Z}$$

Argument involving related functions

04.03.16.0005.01

$$\lfloor \lfloor z \rfloor \rfloor = \lfloor z \rfloor$$

04.03.16.0006.01

$$\lfloor z - \lfloor z \rfloor \rfloor = 0$$

04.03.16.0007.01

$$\lfloor \lfloor z \rfloor \rfloor = \lfloor z \rfloor$$

04.03.16.0008.01

$$\lfloor \lceil z \rceil \rfloor = \lceil z \rceil$$

04.03.16.0009.01

$$\lfloor \text{int}(z) \rfloor = \text{int}(z)$$

04.03.16.0011.01

$$\lfloor \text{quotient}(m, n) \rfloor = \left\lfloor \frac{m}{n} \right\rfloor$$

Addition formulas

04.03.16.0010.01

$$\lfloor z + n \rfloor = \lfloor z \rfloor + n ; n \in \mathbb{Z} \wedge \text{Re}(z) + \frac{1}{2} \notin \mathbb{Z} \wedge \text{Im}(z) + \frac{1}{2} \notin \mathbb{Z}$$

Complex characteristics

Real part

04.03.19.0001.01

$$\text{Re}(\lfloor x + i y \rfloor) = \lfloor x \rfloor$$

04.03.19.0006.01

$$\text{Re}(\lfloor z \rfloor) = \lfloor \text{Re}(z) \rfloor$$

Imaginary part

04.03.19.0002.01

$$\text{Im}(\lfloor x + i y \rfloor) = \lfloor y \rfloor$$

04.03.19.0007.01

$$\text{Im}(\lfloor z \rfloor) = \lfloor \text{Im}(z) \rfloor$$

Absolute value

04.03.19.0003.01

$$|x + i y| = \sqrt{x^2 + y^2}$$

04.03.19.0008.01

$$|z| = \sqrt{[\operatorname{Re}(z)]^2 + [\operatorname{Im}(z)]^2}$$

Argument

04.03.19.0004.01

$$\arg(x + i y) = \tan^{-1}(x, y)$$

04.03.19.0009.01

$$\arg(z) = \tan^{-1}([\operatorname{Re}(z)], [\operatorname{Im}(z)])$$

Conjugate value

04.03.19.0005.01

$$\overline{x + i y} = x - i y$$

04.03.19.0010.01

$$\overline{z} = [\operatorname{Re}(z)] - i [\operatorname{Im}(z)]$$

Signum value

04.03.19.0011.01

$$\operatorname{sgn}(x + i y) = \frac{x + i y}{\sqrt{x^2 + y^2}}$$

04.03.19.0012.01

$$\operatorname{sgn}(z) = \frac{z}{|z|}$$

Differentiation

Low-order differentiation

04.03.20.0001.01

$$\frac{\partial z}{\partial z} = 0$$

In a distributional sense for $x \in \mathbb{R}$.

04.03.20.0002.01

$$\frac{\partial x}{\partial x} = \sum_{k=-\infty}^{\infty} \delta\left(-k + x + \frac{1}{2}\right)$$

Fractional integro-differentiation

$$\frac{\partial^\alpha [z]}{\partial z^\alpha} = \frac{[z] z^{-\alpha}}{\Gamma(1-\alpha)}$$

Integration

Indefinite integration

Involving only one direct function

$$\int [z] dz = z [z]$$

Involving one direct function and elementary functions

Involving power function

$$\int z^{\alpha-1} [z] dz = \frac{z^\alpha [z]}{\alpha}$$

$$\int \frac{[z]}{z} dz = \log(z) [z]$$

Definite integration

For the direct function itself

In the following formulas $a \in \mathbb{R}$.

$$\int_0^n [t] dt = \frac{n^2}{2} ; n \in \mathbb{N}$$

$$\int_0^a [t] dt = \frac{1}{2} (2a - [a]) [a]$$

$$\int_0^a t^{\alpha-1} [t] dt = \frac{1}{\alpha} \left(\left[a + \frac{1}{2} \right] a^\alpha - \left(\left[a - \frac{1}{2} \right] + \frac{1}{2} \right)^\alpha + (1 - 2^{-\alpha}) \zeta(-\alpha) + \zeta \left(-\alpha, \left[a - \frac{1}{2} \right] + \frac{1}{2} \right) \right)$$

$$\int_a^\infty t^{\alpha-1} [t] dt = -\frac{1}{\alpha} \left(\left[a + \frac{1}{2} \right] a^\alpha + \zeta \left(-\alpha, \left[a + \frac{1}{2} \right] + \frac{1}{2} \right) \right) ; \operatorname{Re}(\alpha) < -1$$

$$\int_1^\infty t^{\alpha-1} [t] dt = -\frac{1}{\alpha} \left(\zeta \left(-\alpha, \frac{3}{2} \right) + 1 \right) ; \operatorname{Re}(\alpha) < -1$$

04.03.21.0009.01

$$\int_0^{\infty} t^{\alpha-1} [t] dt = -\frac{1}{\alpha} \left(\zeta \left(-\alpha, \frac{3}{2} \right) + 2^{-\alpha} \right) /; \operatorname{Re}(\alpha) < -1$$

04.03.21.0010.01

$$\int_{-a}^a [t] dt = 0$$

Integral transforms

Fourier exp transforms

04.03.22.0001.01

$$\mathcal{F}_i[[t]](z) = \frac{i}{\sqrt{2\pi}} \sum_{k=1}^{\infty} \frac{(-1)^k (\delta(2k\pi - z) - \delta(2\pi k + z))}{k} - i\sqrt{2\pi} \delta'(z)$$

Fourier cos transforms

04.03.22.0002.01

$$\mathcal{F}_{c_i}[[t]](z) = -\frac{1}{\sqrt{2\pi} z} \operatorname{csc}\left(\frac{z}{2}\right)$$

Fourier sin transforms

04.03.22.0003.01

$$\mathcal{F}_{s_i}[[t]](z) = \frac{1}{\sqrt{2\pi}} \sum_{k=1}^{\infty} \frac{(-1)^k}{k} (\delta(2k\pi - z) - \delta(2\pi k + z)) - \sqrt{2\pi} \delta'(z)$$

Laplace transforms

04.03.22.0004.01

$$\mathcal{L}_i[[t]](z) = \frac{e^{z/2}}{(e^z - 1)z} /; \operatorname{Re}(z) > 0$$

Mellin transforms

04.03.22.0005.01

$$\mathcal{M}_i[[t]](z) = -\frac{1}{z} \left(\zeta \left(-z, \frac{3}{2} \right) + 2^{-z} \right) /; \operatorname{Re}(z) < -1$$

Representations through equivalent functions

With related functions

With Floor

For real arguments

04.03.27.0008.01

$$\lfloor x \rfloor = \left\lfloor x + \frac{1}{2} \right\rfloor /; x \in \mathbb{R} \wedge \frac{2x-1}{4} \notin \mathbb{Z}$$

04.03.27.0009.01

$$\lfloor x \rfloor = \left\lfloor x - \frac{1}{2} \right\rfloor /; \frac{2x-1}{4} \in \mathbb{Z}$$

04.03.27.0010.01

$$\lfloor x \rfloor = \left\lfloor x + \frac{1}{2} \right\rfloor - \chi_{\mathbb{Z}}\left(\frac{2x-1}{4}\right) /; x \in \mathbb{R}$$

For complex arguments

04.03.27.0001.01

$$\lfloor z \rfloor = \left\lfloor \frac{1+i}{2} + z \right\rfloor - i \chi_{\mathbb{Z}}\left(\frac{2\operatorname{Im}(z)-1}{4}\right) - \chi_{\mathbb{Z}}\left(\frac{2\operatorname{Re}(z)-1}{4}\right)$$

With Ceiling

For real arguments

04.03.27.0011.01

$$\lfloor x \rfloor = \left\lfloor x - \frac{1}{2} \right\rfloor /; x \in \mathbb{R} \wedge \frac{2x+1}{4} \notin \mathbb{Z}$$

04.03.27.0012.01

$$\lfloor x \rfloor = \left\lfloor x + \frac{1}{2} \right\rfloor /; \frac{2x+1}{4} \in \mathbb{Z}$$

04.03.27.0013.01

$$\lfloor x \rfloor = \left\lfloor x - \frac{1}{2} \right\rfloor + \chi_{\mathbb{Z}}\left(\frac{2x+1}{4}\right) /; x \in \mathbb{R}$$

For complex arguments

04.03.27.0002.01

$$\lfloor z \rfloor = \left\lfloor z - \frac{1+i}{2} \right\rfloor + \chi_{\mathbb{Z}}\left(\frac{2\operatorname{Re}(z)+1}{4}\right) + i \chi_{\mathbb{Z}}\left(\frac{2\operatorname{Im}(z)+1}{4}\right)$$

With IntegerPart

For real arguments

04.03.27.0014.01

$$\lfloor x \rfloor = \operatorname{int}\left(x + \frac{1}{2}\right) /; x \in \mathbb{R} \wedge x \geq -\frac{1}{2} \vee \frac{2x+1}{4} \in \mathbb{Z}$$

04.03.27.0015.01

$$\lfloor x \rfloor = \operatorname{int}\left(x - \frac{1}{2}\right) /; x \in \mathbb{R} \wedge x < \frac{1}{2} \wedge \frac{2x+1}{4} \notin \mathbb{Z}$$

04.03.27.0016.01

$$\lfloor x \rfloor = \text{int}\left(x + \frac{1}{2}\right) - 1 - \chi_{\mathbb{Z}}\left(\frac{2x-1}{4}\right) + \text{sgn}\left(\chi_{\mathbb{Z}}\left(x + \frac{1}{2}\right) + \theta\left(x + \frac{1}{2}\right)\right); x \in \mathbb{R}$$

For complex arguments

04.03.27.0003.01

$$\lfloor z \rfloor = \text{int}\left(z + \frac{1+i}{2}\right) - 1 - i - \chi_{\mathbb{Z}}\left(\frac{2\text{Re}(z)-1}{4}\right) - i \chi_{\mathbb{Z}}\left(\frac{2\text{Im}(z)-1}{4}\right) + \text{sgn}\left(\chi_{\mathbb{Z}}\left(\text{Re}(z) + \frac{1}{2}\right) + \theta\left(\text{Re}(z) + \frac{1}{2}\right)\right) + i \text{sgn}\left(\chi_{\mathbb{Z}}\left(\text{Im}(z) + \frac{1}{2}\right) + \theta\left(\text{Im}(z) + \frac{1}{2}\right)\right)$$

With FractionalPart

For real arguments

04.03.27.0017.01

$$\lfloor x \rfloor = x - \text{frac}\left(x + \frac{1}{2}\right) + \frac{1}{2}; x \in \mathbb{R} \wedge x \geq -\frac{1}{2} \vee \frac{2x+1}{4} \in \mathbb{Z}$$

04.03.27.0018.01

$$\lfloor x \rfloor = x - \text{frac}\left(x - \frac{1}{2}\right) - \frac{1}{2}; x \in \mathbb{R} \wedge x < \frac{1}{2} \wedge \frac{2x+1}{4} \notin \mathbb{Z}$$

04.03.27.0019.01

$$\lfloor x \rfloor = x - \text{frac}\left(x + \frac{1}{2}\right) - \frac{1}{2} - \chi_{\mathbb{Z}}\left(\frac{2x-1}{4}\right) + \text{sgn}\left(\chi_{\mathbb{Z}}\left(x + \frac{1}{2}\right) + \theta\left(x + \frac{1}{2}\right)\right); x \in \mathbb{R}$$

For complex arguments

04.03.27.0004.01

$$\lfloor z \rfloor = z - \frac{1+i}{2} - \text{frac}\left(z + \frac{1+i}{2}\right) - \chi_{\mathbb{Z}}\left(\frac{2\text{Re}(z)-1}{4}\right) - i \chi_{\mathbb{Z}}\left(\frac{2\text{Im}(z)-1}{4}\right) + \text{sgn}\left(\chi_{\mathbb{Z}}\left(\text{Re}(z) + \frac{1}{2}\right) + \theta\left(\text{Re}(z) + \frac{1}{2}\right)\right) + i \text{sgn}\left(\chi_{\mathbb{Z}}\left(\text{Im}(z) + \frac{1}{2}\right) + \theta\left(\text{Im}(z) + \frac{1}{2}\right)\right)$$

With Mod

For real arguments

04.03.27.0020.01

$$\lfloor x \rfloor = x - \text{frac}\left(x + \frac{1}{2}\right) + \frac{1}{2}; x \in \mathbb{R} \wedge \frac{2x-1}{4} \notin \mathbb{Z}$$

04.03.27.0021.01

$$\lfloor x \rfloor = x - \text{frac}\left(x + \frac{1}{2}\right) - \frac{1}{2}; \frac{2x-1}{4} \in \mathbb{Z}$$

04.03.27.0022.01

$$\lfloor x \rfloor = x - \left(x + \frac{1}{2}\right) \bmod 1 + \frac{1}{2} - \chi_{\mathbb{Z}}\left(\frac{2x-1}{4}\right); x \in \mathbb{R}$$

For complex arguments

04.03.27.0005.01

$$[z] = \frac{1+i}{2} + z - i \chi_{\mathbb{Z}}\left(\frac{2\operatorname{Im}(z)-1}{4}\right) - \chi_{\mathbb{Z}}\left(\frac{2\operatorname{Re}(z)-1}{4}\right) - \left(\frac{1+i}{2} + z\right) \bmod 1$$

With Quotient

For real arguments

04.03.27.0023.01

$$[x] = \operatorname{quotient}\left(x + \frac{1}{2}, 1\right) /; x \in \mathbb{R} \wedge \frac{2x-1}{4} \notin \mathbb{Z}$$

04.03.27.0024.01

$$[x] = \operatorname{quotient}\left(x + \frac{1}{2}, 1\right) - 1 /; \frac{2x-1}{4} \in \mathbb{Z}$$

04.03.27.0025.01

$$[x] = \operatorname{quotient}\left(x + \frac{1}{2}, 1\right) - \chi_{\mathbb{Z}}\left(\frac{2x-1}{4}\right) /; x \in \mathbb{R}$$

For complex arguments

04.03.27.0006.01

$$[z] = \operatorname{quotient}\left(z + \frac{1+i}{2}, 1\right) - \chi_{\mathbb{Z}}\left(\frac{2\operatorname{Re}(z)-1}{4}\right) - i \chi_{\mathbb{Z}}\left(\frac{2\operatorname{Im}(z)-1}{4}\right)$$

With elementary functions

04.03.27.0007.01

$$[z] = z - \frac{\tan^{-1}(\tan(\pi z))}{\pi} /; z \in \mathbb{R} \wedge z + \frac{1}{2} \notin \mathbb{Z}$$

Zeros

04.03.30.0001.01

$$[z] = 0 /; -\frac{1}{2} \leq \operatorname{Re}(z) \leq \frac{1}{2} \wedge -\frac{1}{2} \leq \operatorname{Im}(z) \leq \frac{1}{2}$$

History

- C. F. Gauss (1808)
- J. Liouville (1838)
- J. Hastad (1988) suggested the notation $[z]$

Copyright

This document was downloaded from functions.wolfram.com, a comprehensive online compendium of formulas involving the special functions of mathematics. For a key to the notations used here, see <http://functions.wolfram.com/Notations/>.

Please cite this document by referring to the functions.wolfram.com page from which it was downloaded, for example:

<http://functions.wolfram.com/Constants/E/>

To refer to a particular formula, cite functions.wolfram.com followed by the citation number.

e.g.: <http://functions.wolfram.com/01.03.03.0001.01>

This document is currently in a preliminary form. If you have comments or suggestions, please email comments@functions.wolfram.com.

© 2001-2008, Wolfram Research, Inc.