

# Integrale definite in Mathematica

WolframAlpha computational intelligence.

Integral( $\text{Sqrt}[1+t^2]$ ,  $t=0..1$ )

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Definite integral:  $\int_0^1 \sqrt{1+t^2} dt = \frac{1}{2} (\sqrt{2} + \sinh^{-1}(1)) \approx 1.1478$  More digits Step-by-step solution

Visual representation of the integral:  $\sinh^{-1}(x)$  is the inverse hyperbolic sine function Enlarge Customize Plain Text

Indefinite integral: Step-by-step solution

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Integral( $\text{Sin}[t] \cdot \text{Exp}[-t^2]$ ,  $t=0..Pi$ )

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Definite integral:  $\int_0^\pi \sin(t) \exp(-t^2) dt = -\frac{\sqrt{\pi} (-2 \operatorname{erfi}(\frac{1}{2}) + \operatorname{erfi}(\frac{1}{2} - i\pi) + \operatorname{erfi}(\frac{1}{2} + i\pi))}{4\sqrt[4]{e}} \approx 0.424438$  More digits

Visual representation of the integral:  $\operatorname{erfi}(x)$  is the imaginary error function

Indefinite integral:  $\int \sin(t) \exp(-t^2) dt = -\frac{\sqrt{\pi} (\operatorname{erfi}(\frac{1}{2} - it) + \operatorname{erfi}(\frac{1}{2} + it))}{4\sqrt[4]{e}} + \text{constant}$

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