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Integrate[1/(1+x^4),{x,0,Infinity}]

Definite integral:

More digits   Step−by−step solution

$$\int_0^\infty \frac{1}{1+x^4}\, dx = \frac{\pi}{2\sqrt{2}} \approx 1.1107$$

Indefinite integral:

Approximate form   Step−by−step solution

$$\int \frac{1}{1+x^4}\, dx = \frac{-\log(x^2 - \sqrt{2}\,x + 1) + \log(x^2 + \sqrt{2}\,x + 1) - 2\tan^{-1}(1 - \sqrt{2}\,x) + 2\tan^{-1}(\sqrt{2}\,x + 1)}{4\sqrt{2}} + \text{constant}$$

$\tan^{-1}(x)$ is the inverse tangent function »

$\log(x)$ is the natural logarithm »

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