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fourier series examples - University of Florida

1 in a Fourier series, gives a series of constants that should equal  $f(x)$ .

However, if  $f(x)$  is discontinuous at this value of  $x$ , then the series converges to a value that is half-way between the two



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possible function values

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Fourier transform is an extension of the Fourier series that results when the period of the represented function is lengthened and allowed to approach infinity. Plane

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Wave Propagation NUS/ECE EE5801 9

For a signal period  $\{-T/2, T/2\}$ , the Fourier Series is: where or Alternatively:  
Noted that they are equivalent due to the Euler's formula, which states that  $e^{j2\pi f t} = \cos(2\pi f t) + j \sin(2\pi f t)$

Fourier transform is an extension of the

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Joseph Fourier University is also the 4th best university in Engineering & IT nationally and 115th globally in QS World University Rankings. The origins of this scientific university can be traced all the way back to 1811 when the scientist Joseph Fourier established a faculty of

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science in Grenoble. Nowadays, more than 18,000 undergraduate and graduate students participate to the life of this university.

Joseph Fourier University - Wikipedia  
The Fourier series is named in honour of  
Jean-Baptiste Joseph Fourier

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(1768–1830), who made important contributions to the study of trigonometric series, after preliminary investigations by Leonhard Euler, Jean le Rond d'Alembert, and Daniel Bernoulli. Fourier introduced the series for the purpose of solving the heat equation in a metal plate, publishing his initial results in his 1807 ...

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Fourier series - Wikipedia

A Fourier series is a way of representing a periodic function as a (possibly infinite) sum of sine and cosine functions. It is analogous to a Taylor series, which represents functions as possibly infinite sums of monomial terms. For functions

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that are not periodic, the Fourier series is replaced by the Fourier transform.

Fourier Series | Brilliant Math & Science Wiki

The main drawback of Fourier series is, it is only applicable to periodic signals.

There are some naturally produced signals

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such as nonperiodic or aperiodic, which we cannot represent using Fourier series. To overcome this shortcoming, Fourier developed a mathematical model to transform signals between time (or spatial) domain to frequency domain & vice versa, which is called 'Fourier transform'.



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