

is a sine wave a polynomial

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Approximate a polynomial function using a sum of sine waves

https://math.stackexchange.com/.../approximate-a-polynomial-function-using-a-sum-... Feb 26, 2014 - Representing a signal as a sum of sine waves is exactly what the Fourier transform does and it can be computed extremely fast with the Fast ...

Are there polynomial equations that are equal to basic trig functions ...

https://www.reddit.com/r/.../are_there_polynomial_equations_that_are_equal_to/ Nov 4, 2014 - Are there polynomial functions that are equal to basic trig functions (i.e. ... then you can get a pretty damn good approximation of a sine wave.

[DOC] Approximating Sinusoidal Functions with Polynomials

www.farmingdale.edu/.../approximating-sinusoidal-functions-with-polynomials.doc • Approximating Sinusoidal Functions with Interpolating Polynomials. When most mathematicians think about approximating the values of transcendental ..

A simple sin(x) approximation – Niels Moseley's bloggy bits

https://namoseley.wordpress.com/2012/09/18/a-quick-and-dirty-sinx-approximation/ ▼ Sep 18, 2012 - and x=1. An interesting candidate is the polynomial -16 $x^2 + 8x$... It was generated using an 65536-point FFT and 2129 sine wave periods.

Sine wave polynomial - My Math Forum

mymathforum.com/pre-calculus/49132-sine-wave-polynomial.html ▼ Dec 28, 2014 - Given (n+1) points in the Cartesian plane, you can form a degree n polynomial whose graph passes through all n points. Suppose the (n+1) ...

Taylor series for sine or sinus - Dotan Cohen

dotancohen.com/eng/taylor-sine.php

Diagrams of the Taylor series for sine (sinus) from the first power until the 17th ... This is done by replacing the actual function with polynomials that have the .

A polynomial approximation for the Sine function - Desmos

https://www.desmos.com/calculator/vuyrfflvx7 >

Is this helping? It looks like anything other than a=0 actually makes things worse. Perhaps we should stick with odd powers, since sine is an odd function?

Waveshaping - Music and Computers

cmc.music.columbia.edu/MusicAndComputers/chapter4/04_06.php ▼

The unamplified electric guitar sound is fairly close to a sine wave. But the fuzz box ... A transfer function is often expressed as a polynomial, which looks like:.

Another fast fixed-point sine approximation | Coranac

www.coranac.com/2009/07/sines/ ▼

Jul 16, 2009 - To fix this, you need to use a polynomial with as-yet unknown ... A sine wave has lots of symmetry lines, all revolving around the guarter-circles

Curve fitting - Wikipedia

https://en.wikipedia.org/wiki/Curve_fitting •

Curve fitting is the process of constructing a curve, or mathematical function, that has the best fit ... Polynomial curves fitting points generated with a sine function. be matched to a sine wave, or the sum of two sine waves of different periods, ..

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