include more terms. Away from the jumps, we safely approach $SW(x) = 1$ or -1. At $x = \pi/2$, the series gives a beautiful alternating formula for the number π:

$$1 = \frac{4}{\pi}\left[\frac{1}{1} - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \cdots\right] \quad \text{so that} \quad \pi = 4\left[\frac{1}{1} - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \cdots\right]. \quad (9)$$

The Gibbs phenomenon is the overshoot that moves closer and closer to the jumps. Its height approaches $1.18\ldots$ and it does not decrease with more terms of the series! Overshoot is the one greatest obstacle to calculation of all discontinuous functions (like shock waves in fluid flow). We try hard to avoid Gibbs but sometimes we can't.
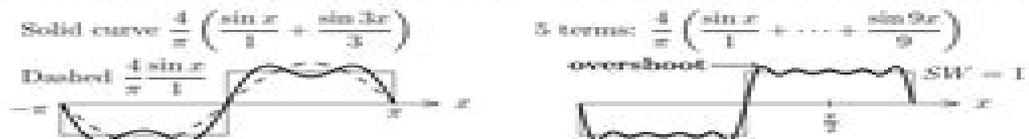
Solid curve $\frac{4}{\pi}\left(\frac{\sin x}{1} + \frac{\sin 3x}{3}\right)$ 5 terms: $\frac{4}{\pi}\left(\frac{\sin x}{1} + \cdots + \frac{\sin 9x}{9}\right)$

Dashed $\frac{4}{\pi}\frac{\sin x}{1}$

Figure 4.2: **Gibbs phenomenon**: Partial sums $\sum_1^N b_n \sin nx$ overshoot near jumps.

Fourier Coefficients are Best

Let me look again at the first term $b_1 \sin x = (4/\pi)\sin x$. This is the **closest possible approximation** to the square wave SW, by any multiple of $\sin x$ (closest in the least squares sense). To see this optimal property of the Fourier coefficients, minimize the error over all b_1:

The error is $\displaystyle\int_0^\pi (SW - b_1 \sin x)^2 dx$ The b_1 derivative is $\displaystyle -2\int_0^\pi (SW - b_1 \sin x)\sin x\, dx$.

The integral of $\sin^2 x$ is $\pi/2$. So the derivative is zero when $b_1 = (2/\pi)\int_0^\pi S(x)\sin x\, dx$. This is exactly equation (6) for the Fourier coefficient.

Each $b_k \sin kx$ is as close as possible to $SW(x)$. We can find the coefficients b_k one at a time, *because the sines are orthogonal.* The square wave has $b_2 = 0$ because all other multiples of $\sin 2x$ increase the error. Term by term, we are "projecting the function onto each axis $\sin kx$."

Fourier Cosine Series

The cosine series applies to *even functions* with $C(-x) = C(x)$:

Cosine series $\displaystyle C(x) = a_0 + a_1 \cos x + a_2 \cos 2x + \cdots = a_0 + \sum_{n=1}^{\infty} a_n \cos nx. \quad (10)$

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Shinil Cho

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Modular Relations and Parity in Number Theory Kalyan Chakraborty,Shigeru Kanemitsu,Takako Kuzumaki,2025-08-19 This book describes research problems by unifying and generalizing some remote looking objects through the functional equation and the parity relation of relevant zeta functions known as the modular relation or RHB correspondence It provides examples of zeta functions introduced as absolutely convergent Dirichlet series not necessarily with the Euler product The book generalizes this to broader cases explaining the special functions involved The extension of the Chowla Selberg integral formula and the Hardy transform are key substituting the Bochner modular relation in the zeta

function of Maass forms The book also develops principles to deduce summation formulas as modular relations and addresses Chowla s problem and determinant expressions for class numbers Many books define zeta functions using Euler products excluding Epstein and Hurwitz type zeta functions Euler products are constructed from objects with a unique factorization domain property This book focuses on using the functional equation called the modular relation specifically the ramified functional equation of the Hecker type Here the gamma factor is the product of two gamma functions leading to the Fourier Whittaker expansion and reducing to the Fourier Bessel expansion or the Chowla Selberg integral formula for Epstein zeta functions **Tables of the Function [sin Theta Divided by Theta] and of Its First Eleven Derivatives** Harvard University. Computation Laboratory,1949 *Flow Sensing in Air and Water* Horst Bleckmann,Joachim Mogdans,Sheryl L. Coombs,2014-01-22 In this book leading scientists in the fields of sensory biology neuroscience physics and engineering explore the basic operational principles and behavioral uses of flow sensing in animals and how they might be applied to engineering applications such as autonomous control of underwater or aerial vehicles Although humans possess no flow sensing abilities countless aquatic e g fish cephalopods and seals terrestrial e g crickets and spiders and aerial e g bats animals have flow sensing abilities that underlie remarkable behavioral feats These include the ability to follow silent hydrodynamic trails long after the trailblazer has left the scene to form hydrodynamic images of their environment in total darkness and to swim or fly efficiently and effortlessly in the face of destabilizing currents and winds *Tables of the Function Sin Ø/ø and of Its First Eleven Derivatives* Harvard University. Computation Laboratory,1949 Mathematical Reviews ,2002 The Foundations of Acoustics Eugen Skudrzyk,2012-12-06 Research and scientific progress are based upqn intuition coordinated with a wide theoretical knowledge experimental skill and a realistic sense of the limitations of technology Only a deep insight into physical phenomena will supply the necessary skills to handle the problems that arise in acoustics The acoustician today needs to be well acquainted with mathematics dynamics hydrodynamics and physics he also needs a good knowledge of statistics signal processing electrical theory and of many other specialized subjects Acquiring this background is a laborious task and would require the study of many different books It is the goal of this volume to present this background in as thorough and readable a manner as possible so that the reader may turn to specialized publications or chapters of other books for further information without having to start at the preliminaries In trying to accomplish this goal mathematics serves only as a tool the better our understanding of a physical phenomenon the less mathematics is needed and the shorter and more concise are our computa tions A word about the choice of subjects for this volume will be helpful to the reader Even scientists of high standing are frequently not acquainted with the fundamentals needed in the field of acoustics Chapters I to IX are devoted to these fundamentals After studying Chapter I which dis cusses the units and their relationships the reader should have no difficulty converting from one system of units to any other Bulletin (new Series) of the American Mathematical Society ,1919 **Non-Gaussian Statistical Communication Theory** David

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