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There are antecedents to the notion of Fourier series in the work of Euler and D. Bernoulli on vibrating strings, but the theory of Fourier series truly began with the pro-found work of Fourier on heat conduction at the beginning of the 19th century. Fourier deals with the problem of describing the evolution of the temperature $T(x,t)$ of a

approximated by Fourier series and the closed-form particular solutions of trigonometric functions are derived using the method of undetermined coefficients. Once the particular solutions for the trigonometric basis functions are derived, the standard MPS can be applied for solving partial differential equations. In comparing

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