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In mathematics, in the field of differential equations, a boundary value problem is a differential equation together with a set of additional constraints, called the boundary conditions. A solution to a boundary value problem is a solution to the differential equation which also satisfies the boundary conditions. Boundary value problems arise in several branches of physics as any physical differential equation will have them. Problems involving the wave equation, such as the determination of nor

Boundary value problem - Wikipedia

Applying the boundary conditions gives, $0 = y(0) = c_1 0 = y(2\pi) = c_2 \sin(2\sqrt{3}\pi) \Rightarrow c_2 = 0$ $0 = y(0) = c_1 0 = y(2\pi) = c_2 \sin(2\sqrt{3}\pi) \Rightarrow c_2 = 0$. In this case we found both constants to be zero and so the solution is, $y(x) = 0$ $y(x) = 0$. In the previous example the solution was $y(x) = 0$ $y(x) = 0$.

Differential Equations - Boundary Value Problems

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y(x – h) = y(x) – h y (x) + (h2/2) y (x) + ⋯. (3) Kosasih 2012 Chapter 12 ODE Boundary Value Problems 2. If (2) is added to (3) and neglecting the higher order term (O (h3)), we will get. h2 y(x h) 2y(x) y(x h) y (x) (4) The difference Eqs. (1) and (4) can be implemented in [x1 = a, xn = b] (see Figure) if few finite points n are defined and dividing domain [a,b] into n – 1 intervals of h which is defined.

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Differential Equations with Boundary-value Problems. Dennis G. Zill, Michael R. Cullen. Brooks/Cole Publishing Company, 1997 - Boundary Value Problems - 582 pages. 1 Review. This Fourth Edition of...

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The problem. A first-order differential equation is an Initial value problem (IVP) of the form, ′ = (, ()), =, where is a function : [, ∞) × →, and the initial condition ∈ is a given vector. First-order means that only the first derivative of y appears in the equation, and higher derivatives are absent.. Without loss of generality to higher-order systems, we restrict ourselves to ...

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The solution of a differential equation of second order of the form F (x, y, y ’, y ’ ’) 0 contains two arbitrary constants. These constants are determined by means of two conditions. The conditions on y and y ’ or their combination are prescribed at two different values of x are called boundary conditions.

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The wave equation is a partial differential equation that may constrain some scalar function u = u (x 1, x 2, ⋯, x n; t) of a time variable t and one or more spatial variables x 1, x 2, ⋯ x n . The quantity u may be, for example, the pressure in a liquid or gas, or the displacement , along some specific direction, of the particles of a vibrating solid away from their resting positions.

~~Wave equation - Wikipedia~~
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