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From $X''(1) = -X(1)$, we find that $-c^2 \mu^2 \sin \mu + c^2 \mu \cos \mu = -c^2 \mu \cos \mu - c^2 \sin \mu$. Hence μ is a solution of the equation $-\mu^2 \sin \mu + \mu \cos \mu = -\mu \cos \mu - \sin \mu$. $2 \mu \cos \mu = (\mu^2 - 1) \sin \mu$ Note that $\mu = \pm 1$ is not a solution and $\cos \mu = 0$ is not a possibility, since this would imply $\sin \mu = 0$ and the two equations have no common solutions.

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A PDE is an identity that relates the independent variables, the dependent variable u , and the partial derivatives of u . It can be written as $F(x, y, u, u_x, u_y) = 0$. (1) This is the most general PDE in two independent variables of first order.

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Partial Differential Equations

Partial differential equations (PDEs) play a key role in many areas of the physical sciences, including physics, chemistry, engineering, and in finance. They can be used to describe many phenomena, such as wave motion, diffusion of gases, electromagnetism, and the evolution of the prices of financial assets, to name just a few.

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Partial Differential Equations | Princeton University Press

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The partial differential equation takes the form
$$Lu = \sum_{\nu=1}^n A_{\nu} \frac{\partial u}{\partial x_{\nu}} + B = 0,$$
 where the coefficient matrices A_{ν} and the vector B may depend upon x and u . If a hypersurface S is given in the implicit form.

Partial differential equation - Wikipedia

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