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Moral A PDE has arbitrary functions in its solution. In these examples the arbitrary functions are functions of one variable that combine to produce a function $u(x,y)$ of two variables which is only partly arbitrary. A function of two variables contains immensely more information than a function of only one variable.

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Partial Differential Equations: Second Edition. Lawrence C. Evans. Publication Year: 2010. ISBN-10: 0-8218-4974-3. ISBN-13: 978-0-8218-4974-3. Graduate Series in Mathematics, vol. 19.R.

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~~Solutions to Partial Differential Equations: An ...~~

A visualisation of a solution to the two-dimensional heat equation with temperature represented by the vertical direction In mathematics, a partial differential equation (PDE) is an equation which imposes relations between the various partial derivatives of a multivariable function.

~~Partial differential equation - Wikipedia~~

Ordinary and partial differential equations occur in many applications. An ordinary differential equation is a special case of a partial differential equation but the behaviour of solutions is quite different in general. It is much more complicated in the case of partial differential equations caused by the

~~Partial Differential Equations~~

Partial Differential Equation (PDE for short) is an equation that contains the independent variables x_1, \dots, x_n , the dependent variable or the unknown function u and its partial derivatives up to some order. It has the form where F is a given function and $u_{x_j} = \partial u / \partial x_j$, $u_{x_i x_j} = \partial^2 u / \partial x_i \partial x_j$, $i, j = 1, \dots, n$ are the partial derivatives of u .

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