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equation (ODE) has only derivatives of one variable — that is, it has no partial derivatives. Here are a few examples of ODEs: Here are a few examples of ODEs: In contrast, a partial differential equation (PDE) has at least one partial derivative.

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Angela M. Reynolds

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Mathematics & Applied

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(v) Systems of Linear Equations (Ch. 6) (vi) Nonlinear Differential Equations and Stability (Ch. 7) (vii) Partial Differential Equations and Fourier Series (Ch. 8) Each class individually goes deeper into the subject, but we will cover the basic tools needed to handle problems arising in physics, materials sciences, and the life



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equation is a differential equation where  $X$  is locally  $\mathbb{R}$ , while a partial differential equation is any non-ordinary differential equation. However, the main difference between locally  $\mathbb{R}$  and locally  $\mathbb{R}^n$  with  $n > 1$  is that the geometry is much more complicated in the latter.

**What is the difference between**

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In mathematics, an ordinary differential equation (ODE) is a differential equation containing one or more functions of one independent variable and the derivatives of those functions. The term ordinary is used in contrast with the term partial differential equation which may be with respect to more than one independent

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variable.

## Ordinary differential equation - Wikipedia

In mathematics, a partial differential equation is a differential equation that contains unknown multivariable functions and their partial derivatives. PDEs are used to formulate problems involving functions of several variables, and are either solved by hand,

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or used to create a computer model. A special case is ordinary differential equations, which deal with functions of a single variable and their derivatives. PDEs can be used to describe a wide variety of phenomena such as sound, heat, diff

### **Partial differential equation - Wikipedia**

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Exam 2 Schedule; Final  
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An ordinary differential equation (ODE) is an equation that involves some ordinary derivatives (as opposed to partial derivatives) of a

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function. Often, our goal is to solve an ODE, i.e., determine what function or functions satisfy the equation. If you know what the derivative of a function is, how can you find the function itself?

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the construction of a solution written in a differentiable, closed analytic form.

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