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contrast, a partial differential equation (PDE) has at least one partial derivative.

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An ordinary differential 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.

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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, 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

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An ordinary differential equation (ODE) is an equation that involves some ordinary derivatives (as opposed to partial

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derivatives) of a 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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