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## **8 1 basics of differential equations mathematics libretexts** **Mar 31 2024**

a solution is a function  $y = f(x)$  that satisfies the differential equation when  $f$  and its derivatives are substituted into the equation the order of a differential equation is the highest order of any derivative of the unknown function that appears in the equation

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to solve ordinary differential equations odes use methods such as separation of variables linear equations exact equations homogeneous equations or numerical methods which methods are used to solve ordinary differential equations

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differential equations solution guide a differential equation is an equation with a function and one or more of its derivatives example an equation with the function  $y$  and its derivative  $dy/dx$  in our world things change and describing how they change often ends up as a differential equation

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differential equations are equations that relate a function with one or more of its derivatives this means their solution is a function learn more in this video questions tips thanks want to join the conversation log in sort by top voted rappy3 10 years ago at 1 05 we see  $d^2 y / dx^2$  where is that  $x^2$  coming from 56 votes

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we can check whether a potential solution to a differential equation is indeed a solution what we need to do is differentiate and substitute both the solution and the derivative into the equation

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calculator applies methods to solve separable homogeneous first order linear bernoulli riccati exact inexact inhomogeneous with constant coefficients cauchy euler and systems differential equations without or with initial conditions cauchy problem solve for system  $y' = x y$   $y' = 2.5 x^2$

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a differential equation or diffeq is an equation that relates an unknown function to its derivatives of order  $n$  there are homogeneous and particular solution equations nonlinear equations first order

second order third order and many other equations how to calculate a differential equation on dcode

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a solution to a differential equation is a function  $y = f(x)$  that satisfies the differential equation when  $f$  and its derivatives are substituted into the equation interactive go to this website to view demonstrations of differential equations some examples of differential equations and their solutions appear in the following table

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quiz unit test about this unit differential equations are equations that include both a function and its derivative or higher order derivatives for example  $y' = f(x, y)$  is a differential equation learn how to find and represent solutions of basic differential equations modeling situations with differential equations learn

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4 1 2 explain what is meant by a solution to a differential equation 4 1 3 distinguish between the general solution and a particular solution of a differential equation 4 1 4 identify an initial value problem 4 1 5 identify whether a given function is a solution to a differential equation or an initial value problem

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solve differential equations the calculator will try to find the solution of the given ode first order second order nth order separable linear exact bernoulli homogeneous or inhomogeneous initial conditions are also supported enter an equation and optionally the initial conditions for example  $y' + 25y = x$   $y(0) = 1$   $y(0) = 2$

## **differential equations fundamental sets of solutions Apr 19 2023**

we define fundamental sets of solutions and discuss how they can be used to get a general solution to a homogeneous second order differential equation we will also define the wronskian and show how it can be used to determine if a pair of solutions are a fundamental set of solutions

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the basic idea to finding a series solution to a differential equation is to assume that we can write the solution as a power series in the form  $y = \sum_{n=0}^{\infty} a_n x^n$  and then try to determine what the  $a_n$ 's need to be we will only be able to do this if the point  $x = x_0$  is an ordinary point

## **1 2 existence and uniqueness of solutions mathematics Jan 17 2023**

although there are methods for solving many differential equations it is impossible to find useful formulas for the solutions of all of them whether we are looking for exact solutions or numerical approximations it is useful to know conditions that imply the existence and uniqueness of solutions of initial value problems

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one of the easiest ways to solve the differential equation is by using explicit formulas in this article let us discuss the definition types methods to solve the differential equation order and degree of the differential equation ordinary differential equations with real word examples and a solved problem table of contents definition order

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