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a differential equation is an equation involving an unknown function y f x and one or more of its derivatives 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 to solve ordinary differential equations odes use methods such as separation of variables linear equations exact equations homogeneous equations or numerical methods learn how to solve different types of differential equations using various methods such as separation of variables linear homogeneous bernoulli and more see examples definitions and applications of differential equations in real world problems techniques for solving differential equations can take many different forms including direct solution use of graphs or computer calculations we introduce the main ideas in this chapter and describe them in a little more detail later in the course step by step solution download page compute answers using wolfram s breakthrough technology knowledgebase relied on by millions of students professionals for math science nutrition history geography engineering mathematics linguistics sports finance music step by step differential equation solver this widget produces a step by step solution for a given differential equation get the free step by step differential equation solver widget for your website blog wordpress blogger or igoogle in mathematics a differential equation is an equation that relates one or more unknown functions and their derivatives 1 in applications the functions generally represent physical quantities the derivatives represent their rates of change and the differential equation defines a relationship between the two differential equations relate a function to its derivative that means the solution set is one or more functions not a value or set of values lots of phenomena change based on their current value including population sizes the balance remaining on a loan and the temperature of a cooling object learn differential equations differential equations separable equations exact equations integrating factors and homogeneous equations and more we ll start to see what the solutions look like what classes of solutions are techniques for solving them visualizing solutions to differential equations and a whole toolkit for kind of digging in deeper a solution to a differential equation is a function whose derivatives satisfy the equation s description differential equations typically have infinitely many solutions parametrized by the initial values included are most of the standard topics in 1st and 2nd order differential equations laplace transforms systems of differential eqauations series solutions as well as a brief introduction to boundary value problems fourier series and partial differntial equations we now examine a solution technique for finding exact solutions to a class of differential equations known as separable differential equations these equations are common in a wide variety of disciplines including physics chemistry and engineering a solution to a differential equation is a function y f x y f x that satisfies the differential equation when f 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 understanding properties of solutions of differential equations is fundamental to much of contemporary science and engineering ordinary differential equations ode s deal with functions of one variable which can often be thought of as time the solution of the linear differential equation produces the value of variable y examples dy dx 2y sin x dy dx y e x table of contents definition solution solving first order differential equation examples linear differential equations definition y t c1y1 t c2y2 t will also be a solution to the differential equation what we want to know is whether or not it will be a general solution in order for 2 to be considered a general solution it must satisfy the general initial conditions in 1 y t0 y0 y t0 y 0 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 for example y x 25y x 0 y 0 1 y 0 2 most elementary and special functions that are encountered in physics and applied mathematics are solutions of linear differential equations see holonomic function when physical phenomena are modeled with non linear equations they are generally approximated by linear differential equations for an easier solution 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 here we will look at solving a special class of differential equations called first order linear differential equations

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techniques for solving differential equations can take many different forms including direct solution use of graphs or computer calculations we introduce the main ideas in this chapter and describe them in a little more detail later in the course

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differential equations relate a function to its derivative that means the solution set is one or more functions not a value or set of values lots of phenomena change based on their current value including population sizes the balance remaining on a loan and the temperature of a cooling object

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understanding properties of solutions of differential equations is fundamental to much of contemporary science and engineering ordinary differential equations ode s deal with functions of one variable which can often be thought of as time

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y t c1y1 t c2y2 t will also be a solution to the differential equation what we want to know is whether or not it will be a general solution in order for 2 to be considered a general solution it must satisfy the general initial conditions in 1 y t0 y0 y t0 y 0

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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 for example y x 25y x 0 y 0 1 y 0 2

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most elementary and special functions that are encountered in physics and applied mathematics are solutions of linear differential equations see holonomic function when physical phenomena are modeled with non linear equations they are generally approximated by linear differential equations for an easier solution

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