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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

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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

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a differential equation is simply an equation that describes the derivative  $s$  of an unknown function physical principles as well as some everyday situations often describe how a quantity changes which lead to differential equations

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in this section we study what differential equations are how to verify their solutions some methods that are used for solving them and some examples of common and useful equations general differential equations consider the equation  $y'' + 3x^2 y' + 3x^2 y = 0$  which is an

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course description differential equations are the language in which the laws of nature are expressed 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 show more

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a differential equation is a mathematical equation that relates some function with its derivatives in applications the functions usually represent physical quantities the derivatives represent their rates of change and the differential equation defines a relationship between the two

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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  $dy/dx$  solving we solve it when we discover the function  $y$  or set of functions  $y$  there are many tricks to solving differential equations if they can be solved but first why

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differential equations are equations that include both a function and its derivative or higher order derivatives for example  $y'' = y$  is a differential equation learn how to find and represent solutions of basic differential equations modeling situations with differential equations learn differential equations introduction

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differential equation mathematical statement containing one or more derivatives that is terms representing the rates of change of continuously varying quantities

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in mathematics an ordinary differential equation ode is a differential equation dependent on only a single independent variable as with other differential equations its unknown function  $y$  and involves the derivatives of those functions  $y'$

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a differential equation is any equation which contains derivatives either ordinary derivatives or partial derivatives there is one differential equation that everybody probably knows that is newton's second law of motion if an object of mass  $m$  is moving with acceleration  $a$  and being acted on with force  $F$  then newton's second law tells us

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a differential equation is an equation that contains at least one derivative of an unknown function either an ordinary derivative or a partial derivative suppose the rate of change of a function  $y$  with respect to  $x$  is inversely proportional to  $y$  we express it as  $dy/dx = k/y$

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a differential equation is an equation involving a function and its derivatives differential equations are called partial differential equations pde or ordinary differential equations ode according to whether or not they contain partial derivatives the order of a differential equation is the highest order derivative occurring

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in mathematics a differential equation is an equation that contains one or more functions with its derivatives the derivatives of the function define the rate of change of a function at a point it is mainly used in fields such as physics engineering biology and so on

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provides a thorough introduction to all standard topics for a graduate level course in ordinary differential equations contains concise introductions to continuation calculus of variations optimization control averaging and chaos includes a wealth of original exercises graduate level topics for self study or master s level projects

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in this chapter we study several types of differential equations and their corresponding methods of solution 8 0 prelude to differential equations a goal of this chapter is to develop solution techniques for different types of differential equations

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