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we introduce the main ideas in this chapter and describe them in a little more detail later in the course 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

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in biology and economics differential equations are used to model the behavior of complex systems the mathematical theory of differential equations first developed together with the sciences where the equations had originated and where the results found application

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differential equations can describe how populations change how heat moves how springs vibrate how radioactive material decays and much more they are a very natural way to describe many things in the universe

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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 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

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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 thumbnail slope field with select solutions

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in this chapter we introduce the concept of differential equations a differential equation is an equation that provides a description of a function s derivative which means that it tells us the function s rate of change

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course description the laws of nature are expressed as differential equations scientists and engineers must know how to model the world in terms of differential equations and how to solve those equations and interpret the solutions this course focuses on the equations and techniques most useful in science and engineering course show more

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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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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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separable equations in this section we solve separable first order differential equations i e differential equations in the form $n(y) dy = m(x) dx$ we will give a derivation of the solution process to this type of differential equation

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

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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

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