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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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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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first order differential equations in this chapter we will look at several of the standard solution methods for first order differential equations including linear separable exact and bernoulli differential equations we also take a look at intervals of validity equilibrium solutions and euler's method

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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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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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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 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

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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

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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

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in this section we solve linear first order differential equations i e differential equations in the form $y' + p(t)y = q(t)$ we give an in depth overview of the process used to solve this type of differential equation as well as a derivation of the formula needed for the integrating factor used in the solution process

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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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differential equations problems with solutions prof hernando guzman jaimes university of zulia maracaibo venezuela problem 1 what is the solution to this differential equation $\frac{dx}{dy} = 3x$ $\frac{dx}{dy} = e^{3x}$ $y = \frac{1}{3}e^{3x} + c$ $y = e^{x+c}$ $y = e^x + c$

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the two solutions will form a general solution to 1 if they satisfy the general initial conditions given in 1 and we can see from cramer s rule that they will satisfy the initial conditions provided the wronskian isn t zero or

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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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