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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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definition 17 1 1 first order differential equation a first order differential equation is an equation of the form $f(t)y' + g(t)y = h(t)$ a solution of a first order differential equation is a function $f(t)$ that makes $f(t)f'(t) + g(t)f(t) = h(t)$ for every value of t

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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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a first order differential equation is linear if it can be written in the form $a(x)y' + b(x)y = c(x)$ where $a(x)$, $b(x)$ and $c(x)$ are arbitrary functions of x remember that the unknown function y depends on the variable x that is x is the independent variable and y is the dependent variable

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a first order differential equation takes the form $f(y)y' + g(x) = 0$ there are two common first order differential equations for which one can formally obtain a solution the first is the separable case and the second is a first order equation

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a first order differential equation is linear if it can be written in the form $a(x)y' + b(x)y = c(x)$ where $a(x)$, $b(x)$ and $c(x)$ are arbitrary functions of x remember that the unknown function y depends on the variable x that is x is the independent variable and y is the dependent variable

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we'll start by defining differential equations and seeing a few well known ones from science and engineering very quickly we will learn about the three main ways of approaching ode's analytic in symbols geometric with pictures and graphs and numerical with the computer

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in this section we will concentrate on first order linear differential equations recall that this means that only a first derivative appears in the differential equation and that the equation is linear

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list of problems existence of solution uniqueness of solution find exact solutions in simple cases approximation of solution in complex cases combine analytic graphical and numerical methods to understand solutions

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outline differential equations and mathematical models integrals as general and particular solutions slope fields and solution curves separable equations and applications linear equations substitution methods and exact equations

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first order differential equations consider the first order ode which is when the highest derivative appearing in the equation is a first derivative $y' = f(t, y)$ $y(t_0) = y_0$ does $y' = f(t, y)$ $y(t_0) = y_0$

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a first order differential equation is linear when it can be made to look like this $dy/dx + p(x)y = q(x)$ where $p(x)$ and $q(x)$ are functions of x to solve it there is a special method we invent two new functions of x call them u and v and say that $y = uv$ we then solve to find u and then find v and tidy up and we are done

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a first order differential equation is defined by an equation $dy/dx = f(x, y)$ of two variables x and y with its function $f(x, y)$ defined on a region in the xy plane it has only the first derivative dy/dx so that the equation is of the first order and no higher order derivatives exist

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the solution process for a first order linear differential equation is as follows put the differential equation in the correct initial form $dy/dx + p(x)y = q(x)$ find the integrating factor $e^{\int p(x) dx}$ using $dy/dx + p(x)y = q(x)$

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definition 17 1 1 a first order differential equation is an equation of the form $f(t)y' + g(t)y = h(t)$ a solution of a first order differential equation is a function $f(t)$ that makes $ds/dt = f(t) - f(t)^2$ for every value of t square

chapter 2 first order differential equations uh

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introduction any first order differential equation can be written as $f(x, y) + y' = 0$ by moving all nonzero terms to the left hand side of the equation of course y' must appear explicitly in the expression of our study of first order differential equations requires an additional assumption namely that the equation can be solved for y'

ordinary differential equation wikipedia

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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 it consists of one or more functions and involves the derivatives of those functions 1 the term ordinary is used in contrast with partial differential equations

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what are first order linear differential equations first order differential equations are differential equations which only include the derivative dy/dx there are no higher order derivatives such as d^2y/dx^2 or d^3y/dx^3 in these equations linear differential equations are ones that can be manipulated to look like this $dy/dx + p(x)y = q(x)$

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what are first order differential equations the highest derivative in a first order differential equation is the first derivative i e $\frac{dy}{dx}$ there s no one size fits all method to solve all kinds of differential equations

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