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Here we will look at solving a special class

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Equations called First
Order Linear

Differential Equations.

First Order. They are

"First Order" when

there is only dy/dx , not

d^2y/dx^2 or d^3y/dx^3

etc. Linear. 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 .

Solution of First

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Equations**

Consider the first-order differential equation $y' = f(x,y)$, is a linear equation and it can be written in the form. $y' + a(x)y = f(x)$ where $a(x)$ and $f(x)$ are continuous functions of x . The alternate method to represent the first-order linear equation in a reduced form is.

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Differential Equation

(Solutions, Types ...

The most general first order differential equation can be written as, $\frac{dy}{dt} = f(y, t)$ (1) (1) $\frac{dy}{dt} = f(y, t)$ As we will see in this chapter there is no general formula for the solution to (1) (1).

What we will do instead is look at several special cases and see how to solve those.

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Equations - First Order DE's

The general form of a linear differential equation of first order is which is the required solution, where c is the constant of integration. $e^{\int P dx}$ is called the integrating factor. The solution (ii) in short may also be written as $y \cdot (I.F) = \int Q \cdot (I.F) dx + c$.

Solution of First

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Equations - A ...**

The differential equation in the picture above is a first order linear differential equation, with $P(x) = 1$ and $Q(x) = 6x^2$. We'll talk about two methods for solving these beasties. First, the long, tedious cumbersome method, and then a short-cut method using "integrating factors".

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You want to learn
about integrating
factors!

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Definition of Linear
Equation of First Order
A differential equation
of type $y' + a(x)y = f(x)$, where $a(x)$ and $f(x)$ are continuous functions of x , is called a linear nonhomogeneous differential equation of first order.

Linear Differential
Page 11/20

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Equations of First

Order

A first-order differential equation is said to be linear if it can be expressed in the form $y' + P(x)y = Q(x)$ where P and Q are functions of x . The method for solving such equations is similar to the one used to solve nonexact equations.

First-Order Linear Equations

A first-order differential

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Equation Solution

equation is said to be homogeneous if it can be written in the form $dy/dx = F(y/x)$ Such an equation can be solved by using the change of variables: $v = y/x$

Differential Equations Solution Guide - MATH

First Order Linear Equations In the previous session we learned that a first order linear inhomogeneous ODE

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for the unknown function $x = x(t)$, has the standard form $x' + p(t)x = q(t)$. (1) (To be precise we should require $q(t)$ is not identically 0.)

Solutions to First Order ODE's 1. Equations

Given F , a function of x , y , and derivatives of y . Then an equation of the form. $F(x, y, y', \dots, y^{(n-1)}) = y^{(n)}$

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$(x, y, y', \dots, y^{(n-1)}) = y^{(n)}$ is called an explicit ordinary differential equation of order n .

Ordinary differential equation - Wikipedia

Differential Equation

Calculator The

calculator will find the solution of the given

ODE: first-order,

second-order, nth-

order, separable,

linear, exact, Bernoulli,

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homogeneous, or
inhomogeneous. Initial
conditions are also
supported.

Differential Equation Calculator - eMathHelp

A first order linear
differential equation
has the following form:
The general solution is
given by, where, called
the integrating factor.
If an initial condition is
given, use it to find the
constant C .

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Equations Calculator**

...

And that should be true for all x 's, in order for this to be a solution to this differential equation. Remember, the solution to a differential equation is not a value or a set of values. It is a function or a set of functions. So in order for this to satisfy this differential equation, it needs to

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be true for all of these
x's here.

Worked example: linear solution to differential equation

...

Advanced Math
Solutions - Ordinary
Differential Equations
Calculator, Separable
ODE Last post, we
talked about linear first
order differential
equations. In this post,
we will talk about
separable,

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