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What Is A

Differential

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28) Laplace Transforms
and Differential
Equations ~~What Is A~~
~~Differential Equation~~

In mathematics, a differential equation is an equation that relates one or more functions and their derivatives. In applications, the functions generally represent physical quantities, the derivatives represent

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Differential Equation

their rates of change, and the differential equation defines a relationship between the two. Such relations are common; therefore, differential equations play a prominent role in many disciplines including engineering, physics, economics, and biology. Mainly the study of differential equa

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What Is A

Differential

~~Differential equation~~

~~Wikipedia~~

A Differential Equation

is a n 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

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many "tricks" to solving
Differential Equations
(if they can be solved!).

But first: why? Why
Are Differential
Equations Useful?

~~Differential Equations—
Introduction—MATH~~

In Mathematics, a
differential equation is
an equation with one or
more derivatives of a
function. The derivative

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What Is A

Differential Equation
of the function is given by dy/dx . In other words, it is defined as the equation that contains derivatives of one or more dependent variables with respect to the one or more independent variables.

~~Differential Equations~~

~~(Definition, Types,~~

~~Order, Degree ...~~

A differential equation

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What Is A

~~Differential~~
~~Equation~~
that involves a function of a single variable and some of its derivatives.

For example, What is the order of a differential equation?

The order of a differential equation is the order of the highest derivative that appears in the equation.

~~Differential Equations~~

~~Surrey~~

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What Is A

~~Differential Equation~~
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.

~~Differential Equations~~

~~Definitions~~

A differential equation

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What Is A

Differential Equation is an equation which contains one or more terms which involve the derivatives of one variable (i.e., dependent variable) with respect to the other variable (i.e., independent variable)

$$dy/dx = f(x)$$

Here x is referred to as an independent variable and y is known as a dependent variable For example, $dy/dx = 5x$

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What Is A

Differential

~~Exact Differential~~

~~Equation Definition,~~

~~Theorem, Proof ...~~

The simplest differential equations are those of the form $y' = f(x)$. For example, consider the differential equation It says that the derivative of some function y is equal to $2x$. To solve the equation means to determine the unknown

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(the function y) which will turn the equation into an identity upon substitution.

~~Introduction to
Differential Equations—
CliffsNotes~~

A differential equation is an equation that relates a function with one or more of its derivatives. In most applications, the

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~~Differential Equation~~
functions represent physical quantities, the derivatives represent their rates of change, and the equation defines a relationship between them.

~~How to Solve~~

~~Differential Equations~~

~~wikiHow~~

Differential Equations are classified on the basis of the order. Order

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of a differential equation is the order of the highest derivative (also known as differential coefficient) present in the equation.

~~Order and Degree of
Differential Equations
with Examples~~

An equation containing at least one differential coefficient or derivative of an unknown variable

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Differential Equation
is known as a differential equation. A differential equation can be either linear or non-linear. The scope of this article is to explain what is linear differential equation, what is nonlinear differential equation, and what is the difference between linear and nonlinear differential equations.

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What Is A

~~Difference Between
Linear and Nonlinear
Differential Equations~~

Bernoulli Differential

Equations ¶ In this

section we solve

Bernoulli differential

equations, i.e.

differential equations in

the form $y' + p(t)y = y^n$

$y' + p(t)y = y^n$. This

section will also

introduce the idea of

using a substitution to

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help us solve differential equations.

~~Differential Equations~~

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An ordinary differential equation (ODE) is an equation that involves some ordinary derivatives (as opposed to partial derivatives) of a function. Often, our goal is to solve an ODE, i.e., determine what

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function or functions satisfy the equation. If you know what the derivative of a function is, how can you find the function itself?

~~An introduction to ordinary differential equations — Math ...~~

A general linear differential equation of order n , in the dependent variable y

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What Is A

and the independent

variable x , is an

equation that can be

expressed in the form \square

$$a_0(x) \frac{d^ny}{dx^n} + a_1(x) \frac{d^{n-1}y}{dx^{n-1}} + \dots + a_{n-1}(x) \frac{dy}{dx} + a_n(x)y = b(x)$$

~~Linear Differential~~

~~Equation: Properties,~~

~~Solving Methods ...~~

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What Is A

Differential Equation

Calculator The

calculator will find the solution of the given

ODE: first-order, second-order, nth-order,

separable, linear, exact, Bernoulli,

homogeneous, or

inhomogeneous. Initial conditions are also

supported.

~~Differential Equation~~

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~~Calculator~~ eMathHelp

Differential equations
Equation
are classified into

several broad categories,
and these are in turn
further divided into
many subcategories.

The most important
categories are ordinary
differential equations
and partial differential
equations. When the
function involved in the
equation depends on

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Differential Equation
only a single variable,
its derivatives are
ordinary derivatives and
the differential equation
is classed as ...

~~Differential equation~~

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Learn differential
equations for
free differential
equations, separable
equations, exact
equations, integrating

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factor, and

homogeneous equations,
and more.

~~Differential Equations |~~

~~Khan Academy~~

Ordinary differential

equation, in

mathematics, an

equation relating a

function f of one

variable to its

derivatives. (The

adjective ordinary here

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Differential Equation refers to those differential equations involving one variable, as distinguished from such equations involving several variables, called partial differential equations.)

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