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What Is A Differential Equation

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~~First Degree~~

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~~differential equation? |~~

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differential**

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Differential Equations

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~~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 their rates of change,

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Differential Equation 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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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 $\frac{dy}{dx}$.

Solving. We solve it

when we discover the

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~~Differential Equation~~
function y (or set of functions y). There are 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

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Differential Equation

an equation with one or more derivatives of a function. The derivative 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.

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Differential

~~Differential Equations~~

~~(Definition, Types,~~

~~Order, Degree ...~~

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

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of the highest
derivative that
appears in the
equation.

~~Differential Equations~~ ~~—Surrey~~

A differential equation is any equation which contains derivatives, either ordinary derivatives or partial derivatives. There is one differential

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What Is A

Differential

Equation
everybody probably
knows, that is

Newton's Second
Law of Motion.

~~Differential Equations~~

~~—Definitions~~

A differential equation
is an equation which
contains one or more
terms which involve
the derivatives of one
variable (i.e.,

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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
an dependent variable

For example, $dy/dx =$
 $5x$

~~Exact Differential~~

~~Equation – Definition,~~

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~~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 (the function

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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

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basis of the order.

Order 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

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one differential coefficient or derivative of an unknown variable 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,

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and what is the
difference between
linear and nonlinear
differential equations.

~~Difference Between
Linear and Nonlinear
Differential Equations~~
Bernoulli Differential
Equations – In this
section we solve
Bernoulli differential
equations, i.e.
differential equations

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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 help us solve differential equations.

~~Differential Equations~~
~~Lamar University~~

An ordinary differential equation (ODE) is an equation that involves some

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ordinary derivatives (as opposed to partial derivatives) of a function. Often, our goal is to solve an ODE, i.e., determine what function or functions satisfy the equation. If you know what the derivative of a function is, how can you find the function itself?

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

A general linear differential equation of order n , in the dependent variable y and the independent variable x , is an equation that can be expressed in the form

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

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

~~Linear Differential
Equation: Properties,
Solving Methods ...~~

Differential Equation

Calculator The

calculator will find the

solution of the given

ODE: first-order,

second-order, nth-

order, separable,

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linear, exact,
Bernoulli,
homogeneous, or
inhomogeneous.
Initial conditions are
also supported.

~~Differential Equation
Calculator~~
eMathHelp

Differential equations
are classified into
several broad
categories, and these

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Differential Equation

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 only a single variable, its derivatives are

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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
factors, and

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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 refers to those

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differential equation involving one variable, as distinguished from such equations involving several variables, called partial differential equations.) Read More on This Topic

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