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We have a second  
order differential  
equation and we have  
been given the

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## Solutions Of

general solution. Our job is to show that the solution is correct.

We do this by substituting the answer into the original 2nd order differential equation.

We need to find the second derivative of  $y$ :  $y = c_1 \sin 2x + 3 \cos 2x$ . First derivative:

$$\frac{dy}{dx} = 2c_1 \cos$$

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1. Solving Differential  
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General Solution of a

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When the arbitrary

constant of the

general solution takes

some unique...

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-General and

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For example, the

general solution of

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the differential

equation.  $\frac{dy}{dx} = 3x^2$

$\int 3x^2 dx = x^3 + c$ ,

which turns out to be.

$y = x^3 + c$ .

$y = x^3 + c$  where  $c$  is  
an arbitrary constant,

denotes a one-

parameter family of

curves as shown in

the figure below.

General and

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Particular Differential  
Equations Solutions ...

Power series

representations of

functions can

sometimes be used to

find solutions to

differential equations.

Differentiate the

power series term by

term and substitute

into the differential

equation to find

relationships between



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differential equations.

Differentiate the power series term by term and substitute into the differential equation to find relationships between the power series coefficients.

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- wikiHow

Degree of Differential  
equation: If the  
differential equations  
are simplified so that  
the differential  
coefficients present in  
it are not in the  
irrational form, then

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the power of the

highest order

derivatives

determines the

degree of the

differential equation.

4.

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The order of the

differential equation

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is the order of the highest order derivative present in the equation. Here some of the examples for different orders of the differential equation are given.

$dy/dx = 3x + 2$  , The order of the equation is 1  
 $(d^2 y/dx^2) + 2(dy/dx) + y = 0$ . The order is 2  
 $(dy/dt) + y = kt$ . The order is 1;

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First Order  
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(Definition, Types,  
Order, Degree ...

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calculator will find  
the solution of the  
given ODE: first-  
order, second-order,  
nth-order, separable,  
linear, exact,

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eMathHelp

$$y' + 4xy = x^3y^2, y(2) = -1.$$
$$y'' + 2y = 12 \sin t$$
$$y(0) = 5$$



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$y'' + 2y' = 12\sin(2t), y(0) = 5.$

$\$bernoulli \therefore \frac{dr}{d}$   
 $\{ \} = \frac{r^2}{d}$

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 $= r^2$  . ordinary-differential-equation-calculator. en.

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Differential Equations

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differential equations

are often harder to solve and therefore commonly

approximated by linear differential equations to find an easier solution.

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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  $y \cdot (I.F) =$

$$Q \cdot (I.F) dx + c.$$

Solution of First

# Read PDF Solutions Of Order Linear Differential Equations - A ...

First write down the characteristic equation, (6) (6), for the differential equation, (4) (4). This will be a quadratic equation and so we should expect two roots,  $r_1$   $r_1$  and  $r_2$   $r_2$ . Once we have these two roots we

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Solutions Of

have two solutions to

the differential

equation.  $y_1(t) = e^{r_1 t}$

and  $y_2(t) = e^{r_2 t}$  (7)

(7)  $y_1(t) = e^{r_1 t}$

and  $y_2(t) = e^{r_2 t}$

Differential Equations

- Basic Concepts

First order

equations. The

validity of

term by term

differentiation of a

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power series within its interval of convergence implies that first order differential equations may be solved by assuming a solution of the form substituting this into the equation, and then determining the coefficients  $c_n$ .

Solutions of

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One of the stages of solutions of differential equations is integration of functions. There are standard methods for the solution of differential equations. Should be brought to the form of the equation with separable variables  $x$

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and  $y$ , and integrate

the separate

functions separately.

To do this sometimes

to be a replacement.

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Only the simplest

differential equations

are solvable by

explicit formulas;

however, many

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expression for the  
solutions is not  
available, solutions  
may be approximated  
numerically using  
computers.

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Linear Differential

Equations – A

differential equation

of the form  $dy/dx +$

$Ky = C$  where  $K$  and  $C$

are constants or

functions of  $x$  only, is

a linear differential

equation of first

order.

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