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Differential
**Existence \u0026amp;
Uniqueness**

Theorem, Ex1

*Existence and
Uniqueness of
Solutions*

*(Differential
Equations 11) ODE*

~~Existence and
uniqueness idea~~

Three Good
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Existence \u0026
Uniqueness

Theorem, Ex3 **Find
the Interval That
a Linear First
Order**

**Differential
Equation Has a
Unique Solution**

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**One Solution, No
Solution, or
Infinitely Many
Solutions -**

Consistent

\u0026

Inconsistent

**Systems Find the
Region a First
Order**

Differential

**Equation Has a
Unique Solution
at a Point - Part**

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a Lipschitz

condition? ODE |

~~Existence and~~

~~uniqueness~~

~~example~~ *Find the*

Region a First

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Equation Has a
Unique Solution
Through a Point -*

Part 2 **Lecture 13:**

**Existence and
Uniqueness of
solution |
Differential
Equations**

**Existence and
Uniqueness** *Intro
to Differential*

Equations - 1.6 -

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*Boundary Value
Problem, Existence
of a Unique
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and Uniqueness
Theorem for First
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(Part-1) Unique Solution Differential Equations

Uniqueness of solutions tells us that the integral curves for a differential equation cannot cross. The function $u = u(t)$ is a solution to the initial value

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problem. $x' = f(t, x)$
 $x(t_0) = x_0$, $x' = f(t,$
 $x)$ $x(t_0) = x_0$, if
and only if u is a
solution to the
integral equation.

Existence and Uniqueness of Solutions

Then for each $t \in I$ there exists a
unique solution $y = \phi(t)$ to the

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Unique Solution
equation

$\frac{dy}{dt} + p(t)y = g(t)$ that
also satisfies the
initial value

condition that
 $y(t_0) = y_0$.

Proof: Let $p = p(t)$ and $g = g(t)$ be continuous on $I = (\alpha, \beta)$ and let $t_0 \in (\alpha, \beta)$

Where To Download Unique Solution Differential Equations *Existence/Uniqueness of Solutions to First Order Linear*

...

In mathematics – specifically, in differential equations – the Picard–Lindelöf theorem, Picard's existence theorem, Cauchy–Lipschitz

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theorem, or existence and uniqueness theorem gives a set of conditions under which an initial value problem has a unique solution. The theorem is named after Émile Picard, Ernst Lindelöf, Rudolf Lipschitz and

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Augustin-Louis
Cauchy. Consider
the initial value
problem $y' = f, y = y_0$.
$$y' = f, \quad y = y_0.$$

Suppose f is
uniformly ...

*Picard-Lindelöf
theorem -
Wikipedia*

First, it tells us that

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for nice enough
linear first order
differential
equations solutions
are guaranteed to
exist and more
importantly the
solution will be
unique. We may
not be able to find
the solution but do
know that it exists
and that there will
only be one of

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them. This is the very important aspect of this theorem.

*Differential
Equations -
Intervals of Validity*

Question: 9. (6 Points) Find The Unique Solution To The System Of Differential Equations Subject

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To The Given Initial
Conditions. $\dot{x} = x - 1$, $\dot{y} = 3y$, Subject To
 $x_1(0) = 2$ & $x_2(0) = -1$

*9. (6 Points) Find
The Unique
Solution To The
Syst ...*

It would be nice if,
during the
derivation of our
differential

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equation, we could make sure that our assumptions would give us a differential equation that upon solving will yield a single unique solution. This question is usually called the uniqueness question in a differential

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Differential Equations - Final Thoughts

Although it is possible for a de to have a unique solution, e.g., $y = 0$ is the solution to $(y')^2 + y^2 = 0$, or no solution at all, e.g., $(y')^2 + y = -1$ has no solution,

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most de's have infinitely many solutions. Example 1.3. The function $y = \sqrt{4x+C}$ on domain $(-C/4, \infty)$ is a solution of $yy' = 2$ for any constant C . *

Differential Equations I

Definition. An initial value problem is a

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differential equation $y' = f(x, y)$ with $y(x_0) = y_0$ with $f : D \subset \mathbb{R} \times \mathbb{R} \rightarrow \mathbb{R}$ where D is an open set of $\mathbb{R} \times \mathbb{R}$, together with a point (x_0, y_0) in the domain of f , called the initial condition.. A solution to an initial value problem is a function that is a solution to the differential equation and

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satisfies $=$. In
higher dimensions,
the differential
equation is
replaced with a
family of ...

*Initial value
problem -
Wikipedia*

Enter an equation
(and, optionally,
the initial
conditions): For

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example, Solution

$$y''(x) + 25y(x) = 0,$$

$$y(0) = 1, y'(0) = 2.$$

Write $y'(x)$

instead of

$$\left(\frac{dy}{dx}\right), y''(x)$$

instead of

$$\left(\frac{d^2y}{dx^2}\right),$$

etc.

*Differential
Equation Calculator
- eMathHelp*

In this introductory

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course on Ordinary
Differential
Equations, we first
provide basic
terminologies on
the theory of
differential
equations and then
proceed to
methods of solving
various types of
ordinary
differential
equations. ... That

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*2-5 Does IVP Have
a Unique Solution?
- First Order ...*

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after I edited it of
course, I noti...

*Existence and
Uniqueness of
Solutions*

(Differential ...

$y' + 4xy = x^3y^2, y(2) = -1.$ \$laplace\
: $y^{\prime} + 2y = 12 \sin \left(\right)$

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$t(2t), y(0) = 5$.

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

5. $\frac{dr}{d\theta} = \frac{1}{r^2}$.

bernoulli $dr/d\theta = r^2$
 θ . ordinary-differential-equation-calculator. en.

*Ordinary
Differential*

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*Equations Solution
Calculator -
Symbolab*

Plugging in 3 into the limit gives the indeterminate answer of $0/0$.

Applying L'Hospital's Rule gives the limit of $1/g'(x) = 0$. So, the limit of $g'(x)$ as x approaches 3 is infinity. One

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Equations

solution would be
to let $g(x)$ equal $\sqrt{x-3}$. Then, $f(x)$
will equal $1/\sqrt{x-3}$.
Comment on
KLaudano's post
"Let $f(x) = 1/g(x)$.

*Verifying solutions
to differential
equations (video ...*
 $x a(t) = \begin{cases} 0 & t < a \\ (t - a)^2 & t \geq a \end{cases}$ is a
solution. Note that

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for $a \geq 0$ all x_a have $x_a(0) = 0$, so they are all solutions to the IVP $x' = 2|x|$, $x(0) = 0$ and you usually discuss uniqueness for initial value problems, as otherwise uniqueness will almost never hold ($x' = 0$ has all constants as

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*Can a differential
equation have non
unique solutions ...*

Pure mathematics
focuses on the
existence and
uniqueness of
solutions, while
applied
mathematics
emphasizes the
rigorous

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Justification of the
methods for
approximating
solutions.

Differential
equations play an
important role in
modeling virtually
every physical,
technical, or
biological process,
from celestial
motion, to bridge
design, to

Where To Download Unique Solution between neurons.

*Differential
equation -
Wikipedia*

Let's look at an example of verifying that a unique solution to a higher order linear differential equation exists.

Example 1 Show

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that there exists a
unique solution to
the third order
linear differential
equation $\frac{dy^3}{dt^3} + 3$
 $\frac{d^2y}{dt^2}$
 $+ \sin t$
 $\frac{dy}{dt} +$
 $e^t y = 0$ with the
initial conditions
 $y(1) = 1$, $y'(1)$
 $= 1$, $y''(1) = 2$

Where To Download Unique Solution *The Existence/Uniqueness of Solutions to Higher Order ...*

This video explains how to determine the interval that a first order differential equation initial value problem would have a unique solution.

Library: [htt...](#)

Where To Download Unique Solution *Find the Interval That a Linear First Order Differential Equations*

...

One of the stages of solutions of differential equations is integration of functions. There are standard methods for the solution of

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differential equations. Should be brought to the form of the equation with separable variables x and y , and integrate the separate functions separately. To do this sometimes to be a replacement.

Solving of

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Degree of
Differential
Equation. The
degree of the
differential
equation is the
power of the
highest order
derivative, where
the original
equation is

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represented in the form of a polynomial equation in derivatives such as y', y'', y''' , and so on.. Suppose $(d^2 y/dx^2) + 2(dy/dx) + y = 0$ is a differential equation, so the degree of this equation here is 1.

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