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and coordinates
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Introduction. The
equation $dy/dt = y*y$ is
nonlinear. The

Fundamental Theorem
of Calculus says that
the integral inverts...

First Order Equations.

Its slope is a delta
function: zero

everywhere except
infinite at the jump.

That complex
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dimensional linear
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their basic exponential
solution.

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by professors as the primary text for undergraduate and graduate level courses covering differential equations. It provides a theoretical approach to dynamical systems and chaos written for a diverse student population among the fields of mathematics, science, and ...

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basic introduction

**Differential
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algebra**

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and Linear Algebra
Gilbert Strang,
Massachusetts Institute
of Technology (MIT)
Linear equations
include $dy/dt = y$, $dy/dt = -y$, $dy/dt = 2ty$. The
equation $dy/dt = y * y$
is nonlinear.

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Examples : Linear
versus Nonlinear
Chapter 2: Second
Order Equations 2.1
Second Derivatives in
Science and
Engineering Chapter 3:
Graphical and
Numerical Methods 3.2

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Saddles, and Spirals
Chapter 4: Linear
Equations and Inverse
Matrices 4.1 Two
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Equations

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Instructors Gilbert
Strang is the
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