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Since mid-twentieth century, the traditional course in differential equations has been offered in the first or second semester of the sophomore year and has relied on only a minimum of linear algebra, most notably the use of determinants.

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Linear Algebra and

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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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primary text for
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equations and linear algebra

From the series:

Differential Equations
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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Equations and Inverse
Matrices 4.1 Two

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Instructors Gilbert

Strang is the

MathWorks Professor of

Mathematics at MIT.

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