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covers some of the
conventions and
prerequisites for the
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will focus on first*

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order differential equations. We'll start by defining differential equations and seeing a few well known ones from science and engineering.

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[A First Course in Differential Equations with Modeling ...](#)

In this section we will

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*use first order
differential equations
to model physical
situations. In
particular we will look
at mixing problems
(modeling the amount
of a substance
dissolved in a liquid
and liquid both enters
and exits), population
problems (modeling a
population under a
variety of situations in*

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which the population can enter or exit) and falling objects (modeling the velocity of a ...

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Of course, both methods lead to the same solution. Initial Value Problem. If besides the

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differential equation, there is also an initial condition in the form

of $y(x_0)$

$= y_0$,) such

a problem is called

the initial value

problem (IVP) or

Cauchy problem.

[17.1 First Order](#)

[Differential Equations](#)

MATH 207

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*Introduction to
Differential Equations The
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(3) NW Introductory

*course in ordinary
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*Includes first- and
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equations and

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Prerequisite:

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Science and
Technology(KAIST).
In this introductory
course on Ordinary
Differential Equations,
we first provide basic*

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terminologies on the theory of differential equations and then proceed to methods of solving various types of ordinary differential equations. We handle first order differential equations and then second order linear differential equations.

[1.10 Numerical](#)

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The
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*First Review of the
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55 short videos have
been created to
present the main
ideas for differential
equations in an active*

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*way. Cleve Moler
(who created*

*MATLAB) developed
a parallel series of
videos about
numerical solutions
that presents
increasingly accurate
and professional
codes from MATLAB's
ODE Suite.*

[Homogeneous
differential equation -](#)

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Equations The

History. Differential equations first came into existence with the invention of calculus by Newton and Leibniz. In Chapter 2 of his 1671 work Methodus fluxionum et Serierum Infinitarum, Isaac Newton listed three kinds of differential

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Differential Equations: = = (,) ? ?

+ ? ? = In all these

cases, y is an

unknown function of x

(or of and), and f is a

given function. He

solves these

examples and ...

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concepts of single-
variable calculus and*

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*ordinary differential
equations.*

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