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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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[1.10 Numerical](#)

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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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equations: $y' = f(x, y)$? ?

+ ? ? = In all these

cases, y is an

unknown function of x

(or of t and x), and f is a

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solves these

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