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8 Theoretical Introduction to Numerical Analysis example,a functioncan be replaced by a table of its numerical values; the derivative df dx =  $\lim_{h\to 0} f(x+h) - f(x) h$  can be replaced by an approximateformula, such as

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A Theoretical Introduction to Numerical Analysis 1.1 Discretization Let f(x) be a function of the continuous argument  $x \in [0, 1]$ . Assume that this function provides (some of) the required input data for a given problem that needs to be approximately solved on a computer.

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# A Theoretical Introduction to Numerical Analysis

This course analyzed the basic techniques for the efficient numerical solution of problems in science and engineering. Topics spanned root finding, interpolation, approximation of functions, integration, differential equations, direct and iterative methods in linear algebra.

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