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We use the notations  $[a; b]$  and  $(a; b)$  for the closed and the open intervals, respectively, and are defined by  $[a; b] = \{x \in \mathbb{R} : a \leq x \leq b\}$  and  $(a; b) = \{x \in \mathbb{R} : a < x < b\}$ .

### 1.1 Sequences of Real Numbers De



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Definition 1.1 (Sequence). A sequence of real numbers is an ordered list of real numbers  $a_1; a_2; \dots; a_n; a_{n+1};$

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(e.g., numerical integration or nonlinear optimization) are also surveyed.

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to solve by hand. When such problems arise we can exploit numerical analysis to reduce the problem to one involving a finite number of unknowns and use a



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computer to solve the resulting equations. The text starts with a description of how we could perform some very basic calculations (that is, simply using the computer as a calculator). It then

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