

As the grid spacing h tends to zero, the error increases as $(a(h))h^q$, where $q > 0$, while $\lim_{h \rightarrow 0} |a(h)| > 1$.

Such methods of solution fall into _____ category
unstable methods

_____ allows errors to a certain extent, and then we smooth the obtained function approximation match

the development of _____ computers that has made it necessary to standardize floating point arithmetic
micro

The process of transforming input into output information is called _____
interpolation

The standard defines four floating point formats divided into _____ groups

Basic
extended
I and II

Ability of a program to run on different computers without changes is called _____
portability

IEEE Standard floating point real numbers on computers today, including _____

Intel-based PC™s
Macs
Unix platforms.
I, II and III

_____ is the functions that pass exactly through all given points
algorithm

_____ is known as machine number

floating point
fixed point
I and II

$x_1 = 1.234 \cdot 10^1$,

$x_2 = 3.453 \cdot 10^0$,

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$$x_4 = 4.667 \cdot 10^{-3},$$

$$x_5 = 9.876 \cdot 10^{-4},$$

and use the floating point system $(10, 3, -90.9)$ with rounding. Summation in decreasing and increasing order gives

$$\text{decreasing order: } S = 1.592 \cdot 10^1,$$

$$\text{decreasing order: } S = 1.583 \cdot 10^1.$$

The exact result rounded to 6 decimals is $S_5 = \underline{\hspace{2cm}}$
1.583306.101

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