

Re: monotonic sequences

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In article

<31248407.1141689829666.JavaMail.jakarta@xxxxxxxxxxxxxxxxxxxxxxxx>, Iteopia <iteopia@xxxxxxx> wrote:

We are asked to give a monotonic subsequence of the given sequences:
 $a_n = (-1)^n$ The only terms of this sequence is $\{-1, 1\}$. Can you explain why a monotonic subsequence for this sequence is $\{1, 1.11, 1.111, 1.1111, \dots\}$ or $\{-1, -1.1, -1.11, -1.111, \dots\}$

That makes no sense at all.

$b_n = 5^{(-1)^n}$ The only terms of this sequence is $\{1/5, 5, 1/5, 5, \dots\}$
If the above is true then a monotonic subsequence for the above sequence could be $\{5, 5.1, 5.11, 5.111\}$.

Nope.

What's an example of a nonincreasing monotonic subsequence for this sequence? Is it $\{1/5, 1/6, 1/7, \dots\}$?

Of course not.

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