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Chapter 1 Sequences and Series. Engineering Mathematics - I. 2. 1.1 Sequence. A function $f: N \rightarrow S$, where S is any nonempty set is called a Sequence. i.e., for each $n \in N$, \exists a unique element $f(n) \in S$. The sequence is written as $f(1), f(2), f(3), \dots, f(n), \dots$, and is denoted by $\{f(n)\}$, or $\langle f(n) \rangle$, or $(f(n))$.

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1.1 SEQUENCES. A function $f: N \rightarrow \mathfrak{R}$ whose domain is the set N

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of all natural numbers and range a set of real numbers is called a sequence of real number or simply a real sequence. If $n \in \mathbb{N}$, then $f(n)$ is generally denoted by ... Get Engineering Mathematics now with O'Reilly online learning.

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A Sequence is said to be Bounded if it is Bounded above and Bounded Below. Ex: 1) , then -1 is Infimum and 1 is Supremum of the Sequence 2) is Bounded above. Since 0 is Infimum and 1 is Supremum. Un Bounded Sequence A Sequence which is not Bounded is called as Un Bounded Sequence. Ex: 1) , then it is Bounded above , but not Bounded below.

SEQUENCES & SERIES - Sakshi

$1 = r \cos(\theta) + bx + c$ where we have used the formula $\cos A \cos B - \sin A \sin B = \cos(A + B)$ Differentiating again and simplifying as before, $y. 2 = r^2 \cos(\theta) + bx + c$. Similarly $y. 3 =$

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$r^n \cos(n\theta) = a^n \cos(n\theta) + b^n \sin(n\theta) + c^n$ Thus $y = r^n \cos(n\theta)$ Where $r = \sqrt{a^2 + b^2}$ and $\theta = \tan^{-1}(b/a)$.

Engineering Mathematics - I

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...

Each number of the set is called a term of the sequence and its length is the number of terms in it. We can write the sequence as. A finite sequence is generally described by a 1, a 2, a 3 a n, and an infinite sequence is described by a 1, a 2, a 3 to infinity. A sequence $\{a_n\}$ has the limit L and we write or as.

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Example 1.1.5 Build a sequence of numbers in the following fashion. Let the first two numbers of the sequence be 1 and let

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the third number be $1 + 1 = 2$. The fourth number in the sequence will be $1 + 2 = 3$ and the fifth number is $2 + 3 = 5$. To continue the sequence, we look for the previous two terms and add them together.

Sequences and Series: An Introduction to Mathematical Analysis

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which is a sequence so that the n th term is given by n^3 . Series

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is the indicated sum of a sequence of numbers. Thus,

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