

# Engineering Mathematics 1 Sequence And Series

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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  $(f(n))$ .

## Chapter 1 Sequences and Series - BS Publications

1.1 SEQUENCES. A function  $f: N \rightarrow \mathfrak{R}$  whose domain is the set  $N$  of all natural numbers and range a set of real numbers is called a sequence of real number or simply a real sequence. If  $n \in N$ , 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.

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$1 = r e^{ax} \cos(\theta bx + c)$  where we have used the formula  $\cos A \cos B - \sin A \sin B = \cos(A + B)$   
Differentiating again and simplifying as before,  $y. 2 = r 2 e^{ax} \cos(\theta 2\theta + bx + c)$ . Similarly  $y. 3 = r 3 e^{ax} \cos(\theta 3\theta + bx + c)$ . ..... Thus  $y r n e^{ax} \cos(\theta n \theta + bx + c) = \theta + \dots$  Where  $r = a^2 + b^2$  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 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.

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which is a sequence so that the  $n$ th term is given by  $n^3$ . Series is the indicated sum of a sequence of numbers. Thus,

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