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## **Engineering Mathematics 1 Sequence And** Chapter 1 Sequences and Series.

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Sequence. A function  $f: \mathbb{N} \rightarrow S$ , where  $S$  is any nonempty set is called a Sequence. i.e., for each  $n \in \mathbb{N}$ ,  $\exists$  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  $f : \mathbb{N} \rightarrow \mathbb{R}$  whose domain is the set  $\mathbb{N}$  of all natural numbers and range a set of real numbers is called a sequence of real number or simply a real sequence. If  $n \in \mathbb{N}$ , then  $f(n)$  is generally denoted by ... Get Engineering Mathematics now with O'Reilly online learning.

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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.  
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$1 = r \cos(\theta) \cos(\theta) + c$   
where we have used  
the formula  $\cos A \cos B - \sin A \sin B = \cos(A + B)$

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B) Differentiating again and simplifying as before,  $y_2 = r^2 e^{ax} \cos(\theta x + bx + c)$ . Similarly  $y_3 = r^3 e^{ax} \cos(\theta x + bx + c)$ . .....  
..... Thus  $y = r^n e^{ax} \cos(\theta x + bx + c)$  where  $r = \frac{1}{\sqrt{a^2 + b^2}}$  and  $\theta = \tan^{-1}(b/a)$ .

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Each number of the set

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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  $a_1, a_2, a_3, \dots, a_n$ , and an infinite sequence is described by  $a_1, a_2, a_3, \dots$  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

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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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