# Free reading Engineering mathematics 1 sequence and series Copy

sequences are a special type of function that are useful for describing patterns in this unit we ll see how sequences let us jump forwards or backwards in patterns to solve problems what is a sequence here are a few lists of numbers 3 5 7 21 16 11 6 1 2 4 8 ordered lists of numbers like these are called sequences each number in a sequence is called a term sequences usually have patterns that allow us to predict what the next term might be sequences are ordered lists of numbers called terms like 2 5 8 some sequences follow a specific pattern that can be used to extend them indefinitely for example 2 5 8 follows the pattern add 3 and now we can continue the sequence sequences can have formulas that tell us how to find any term in the sequence this topic covers recursive and explicit formulas for sequences arithmetic sequences geometric sequences sequences word problems a sequence is a list of things usually numbers that are in order infinite or finite when the sequence goes on forever it is called an infinite sequence otherwise it is a finite sequence examples 1 2 3 4 is a very simple sequence and it is an infinite sequence 20 25 30 35 is also an infinite sequence sequences a sequence 1 is a function whose domain is a set of consecutive natural numbers beginning with 1 for example the following equation with domain 1 2 3 dots defines an infinite sequence 2 a n 5 n 3 or a n 5 n 3 the elements in the range of this function are called terms of the sequence there are several types of sequences in math such as arithmetic sequences quadratic sequences geometric sequences triangular sequences square number sequences cube number sequences and triangular number sequences let us learn each of the sequences in detail in the upcoming sections a sequence is a set of things usually numbers that are in order each number in the sequence is called a term or sometimes element or member read sequences and series for a more in depth discussion finding missing numbers to find a missing number first find a rule behind the sequence intro

examples arith geo seq arith series geo series purplemath a sequence called a progression in british english is an ordered list of numbers the numbers in this ordered list are called the elements or the terms of the sequence what is a sequence what does it mean for a sequence to converge what does it mean for a sequence to diverge we encounter sequences every day your monthly utility payments the annual interest you earn on investments the amount you spend on groceries each week all are examples of sequences a sequence is a set of things usually numbers that are in order each number in the sequence is called a term or sometimes element or member read sequences and series for more details arithmetic sequence in an arithmetic sequence the difference between one term and the next is a constant a sequence is a function whose domain is a subset of the counting numbers listing all of the terms for a sequence can be cumbersome sequences meaning a sequence is a list of numbers in a specified order the different numbers occurring in a sequence are called the terms of the sequence let the terms of a sequence be $a_1$ $a_2$ $a_3$ $a_n$ etc the subscripts indicate the position of the term a sequence is an ordered list it is a function whose domain is the natural numbers 1 2 3 4 the three dots called an ellipsis at the end of the sequence means that the sequence goes on forever to infinity information about sequences forms of sequences ways of expressing or defining sequences in algebra 1 an arithmetic sequence is a sequence where each term increases by adding subtracting some constant k this is in contrast to a geometric sequence where each term increases by dividing multiplying some constant k in mathematics we use the word sequence to refer to an ordered set of numbers i e a set of numbers that occur one after the other for instance the numbers 2 4 6 8 form a sequence the order is important the first number is 2 the second is 4 etc in mathematics a sequence is an enumerated collection of objects in which repetitions are allowed and order matters like a set it contains members also called elements or terms the number of elements possibly infinite is called the length of the sequence sequence and series have been explained here in detail with examples learn types of sequences such as arithmetic geometric harmonic sequences and fibonacci numbers free sequence calculator step by step solutions to help identify the sequence and find the nth term of arithmetic and geometric sequence types in this unit we learn about the various ways in which we can define

sequences we ll construct arithmetic and geometric sequences to describe patterns and use those sequences to solve problems

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