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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 the first term of the sequence is 5 and the common difference is 3 we can get any term in the sequence by taking the first term 5 and adding the common difference 3 to it repeatedly check out for example the following calculations of the first few terms there are three things needed in order to find the 35 th term using the formula the first term latex a 1 latex the common difference between consecutive terms latex d latex and the term position latex n latex from the given sequence we can easily read off the first term and common difference example add up the first 10 terms of the arithmetic sequence 1 4 7 10 13 the values of a d and n are a 1 the first term d 3 the common difference between terms n 10 how many terms to add up so becomes 5 2 9 3 5 29 145 check why don t you add up the terms yourself and see if it comes to 145 first term 1 1 1 second term 2 2 4 third term 3 4 12 fourth term 4 8 32 fifth term 5 16 80 such a sequence is defined by four parameters the initial value of the arithmetic progression a the common difference d the initial value of the geometric progression b and the common ratio r you can calculate the first term hspace 0 2em n text th hspace 0 2em nth term common difference sum of hspace 0 2em n hspace 0 2em n terms number of terms or position of a term in the arithmetic sequence the calculator will not only give you the answer but also a step by step solution the first term of an arithmetic sequence is a its common difference is d n is the number of terms the general form of the ap is a a d a 2d a 3d up to n terms 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 1 3 5 7 is the sequence of the first 4 odd numbers and is a finite sequence 4 3 2 1 is 4 to 1 backwards 1 2 4 8 16 32 is an infinite sequence where every term doubles definition notation first term common difference general form nth term types of ap sum of nth term formula list questions and solutions problems to solve faqs what is arithmetic progression in mathematics there are three different types of progressions they are arithmetic progression ap geometric progression gp the formula for the nth term of an arithmetic sequence is a n a 1 n 1 d where a 1 is the first term of the sequence a n is the nth term of the sequence and d is the common difference what is an arithmetic sequence an arithmetic sequence is a sequence of numbers in which each term is obtained by adding a fixed number to the previous term free sequences first term calculator calculate the first term of a sequence step by step arithmetic series sum latex large 2 4 6 8 10 latex notice that in a sequence we list the terms separated by commas while in a series the terms are added as indicated by the plus symbols therefore an arithmetic seriesis simply the sum of the terms of an arithmetic sequence define the first term of the sequence f 0 0 define the second term of the sequence f 1 1 compute the third term as the sum of the previous ones f 2 f 0 f 1 0 1 1 repeat the third step until you reach the desired position the first fibonacci numbers are 0 1 1 2 3 5 8 13 21 34 55 from this the formula for the first term is a 1 a n n 1 d using this equation ensures accuracy in pinpointing the sequence s starting point it s important to have the value of one term and the common difference to efficiently determine the first term we can use the n th term formula to build a system of equations a 1 d 4 a 1 4d 10 if we subtract the first equation from the

second we can calculate d 3d 6 d 2 now if we substitute the calculated value we see that a 1 2 4 so a 1 2 now we can answer that the first term of this sequence is 2 how to derive the geometric sequence formula to generate a geometric sequence we start by writing the first term then we multiply the first term by a fixed nonzero number to get the second term of the geometric sequence to obtain the third sequence we take the second term and multiply it by the common ratio sequences intro algebra video khan academy google classroom about transcript 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 the first term runs to around july 20 when summer vacation begins kids return to school in early september for the second term which lasts until about december 25 the final term begins in early january and continues to late march most people think spring when life begins anew is the perfect time to start new things april 1st start of academic year 2024 april 12th spring matriculation ceremonies summer vacation varies depending on the college faculty graduate school for details please contact the relevant college faculty graduate school september 20th autumn diploma presentation ceremony and commencement october 1st

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the first term of the sequence is 5 and the common difference is 3 we can get any term in the sequence by taking the first term 5 and adding the common difference 3 to it repeatedly check out for example the following calculations of the first few terms

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there are three things needed in order to find the 35 th term using the formula the first term latex a 1 latex the common difference between consecutive terms latex d latex and the term position latex n latex from the given sequence we can easily read off the first term and common difference

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example add up the first 10 terms of the arithmetic sequence 1 4 7 10 13 the values of a d and n are a 1 the first term d 3 the common difference between terms n 10 how many terms to add up so becomes 5 2 9 3 5 29 145 check why don t you add up the terms yourself and see if it comes to 145

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first term 1 1 1 second term 2 2 4 third term 3 4 12 fourth term 4 8 32 fifth term 5 16 80 such a sequence is defined by four parameters the initial value of the arithmetic progression a the common difference d the initial value of the geometric progression b and the common ratio r

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you can calculate the first term hspace 0 2em n text th hspace 0 2em nth term common difference sum of hspace 0 2em n hspace 0 2em n terms number of terms or position of a term in the arithmetic sequence the calculator will not only give you the answer but also a step by step solution

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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 1 3 5 7 is the sequence of the first 4 odd numbers and is a finite sequence 4 3 2 1 is 4 to 1 backwards 1 2 4 8 16 32 is an infinite sequence where every term doubles

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the formula for the nth term of an arithmetic sequence is a n a 1 n 1 d where a 1 is the first term of the sequence a n is the nth term of the sequence and d is the common difference what is an arithmetic sequence an arithmetic sequence is a sequence of numbers in which each term is obtained by adding a fixed number to the previous term

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free sequences first term calculator calculate the first term of a sequence step by step

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define the first term of the sequence f 0 0 define the second term of the sequence f 1 1 compute the third term as the sum of the previous ones f 2 f 0 f 1 0 1 1 repeat the third step until you reach the desired position the first fibonacci numbers are 0 1 1 2 3 5 8 13 21 34 55

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from this the formula for the first term is a 1 a n n 1 d using this equation ensures accuracy in pinpointing the sequence s starting point it s important to have the value of one term and the common difference to efficiently determine the first term

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we can use the n th term formula to build a system of equations a 1 d 4 a 1 4d 10 if we subtract the first equation from the second we can calculate d 3d 6 d 2 now if we substitute the calculated value we see that a 1 2 4 so a 1 2 now we can answer that the first term of this sequence is 2

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how to derive the geometric sequence formula to generate a geometric sequence we start by writing the first term then we multiply the first term by a fixed nonzero number to get the second term of the geometric sequence to obtain the third sequence we take the second term and multiply it by the common ratio

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the first term runs to around july 20 when summer vacation begins kids return to school in early september for the second term which lasts until about december 25 the final term begins in early january and continues to late march most people think spring when life begins anew is the perfect time to start new things

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