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sal introduces geometric sequences and their main features the initial term and the common ratio created by sal khan a is the first term and r is the factor between the terms called the common ratio example 1 2 4 8 the sequence starts at 1 and doubles each time so a 1 the first term r 2 the common ratio between terms is a doubling and we get a ar ar^2 ar^3 1 1 2 1 2 2 1 2 3 key takeaways a geometric sequence is a sequence where the ratio r between successive terms is constant the general term of a geometric sequence can be written in terms of its first term a 1 common ratio r and index n as follows an 1 a geometric series is the sum of the terms of a geometric sequence in geometric sequences the ratio between consecutive terms is always the same we call that ratio the common ratio for example the common ratio of the following sequence is 2 geometric sequence formulas give a n the n th term of the sequence this geometric series calculator will help you understand the geometric sequence definition so you could answer the question what is a geometric sequence we explain the difference between both geometric sequence equations the explicit and recursive formula for a geometric sequence and how to use the geometric sequence formula with some master how to use the geometric sequence formula learn how to generate a geometric sequence and compute the n th term of the geometric sequence calculate the fixed quotient and understand how every term is generated using a common ratio identify geometric sequences find a given

term in a geometric sequence find the n th term of a geometric sequence find the sum of a finite geometric sequence use geometric sequences to solve real world applications a geometric sequence is a special type of sequence where the ratio of every two successive terms is a constant this ratio is known as a common ratio of the geometric sequence in other words in a geometric sequence every term is multiplied by a constant which results in its next term the two simplest sequences to work with are arithmetic and geometric sequences an arithmetic sequence goes from one term to the next by always adding or subtracting the same value for instance 2 5 8 11 14 is arithmetic because each step adds three and 7 3 1 5 is arithmetic because each step subtracts 4 the formula for the n th term of a geometric sequence is $a_n = a_1 r^{n-1}$ where a_1 is the first term of the sequence a_n is the n th term of the sequence and r is the common ratio what is a geometric sequence a geometric sequence is a sequence of numbers in which each term is obtained by multiplying the previous term by a fixed number a geometric series is the sum of finite or infinite terms of a geometric sequence for the geometric sequence $a, ar, ar^2, \dots, ar^{n-1}$ the corresponding geometric series is $a + ar + ar^2 + \dots + ar^{n-1}$ we know that series means sum a set of numbers wherein each element after the first is obtained by multiplying the preceding number by a constant factor is known as geometric sequence a sequence can be arithmetic when there is a common difference between successive terms indicated as d

2 1 basic geometric concepts page id the nroc project table of contents learning objectives introduction figures on a plane example 2 1 1 solution example 2 1 2 geometric shapes are closed figures created using points line segments circles and curves such shapes can be seen everywhere around us some of the geometric shape examples are circle rectangle triangle etc a pizza is circular whose slices are triangular similarly doors and windows are examples of rectangles definition geometrical shapes are the figures which represent the forms of different objects some

figures are two dimensional whereas some are three dimensional shapes the two dimensional figures lie on only the x axis and y axis but 3d shapes lie on the x y and z axes about transcript sal finds an explicit formula of a geometric sequence given the first few terms of the sequences then he explores equivalent forms the explicit formula and finds the corresponding recursive formula questions tips thanks want to join the conversation log in sort by top voted roadtowardsknowledge 8 years ago at 3 00 the most basic geometric idea is a point which has no dimensions a point is simply a location on the plane it is represented by a dot three points that don't lie in a straight line will determine a plane the image below shows four points labeled a b c and d figure 6 1 1 a set of points geometric constructions animated construction in geometry means to draw shapes angles or lines accurately these constructions use only compass straightedge a ruler but not using the numbers and a pencil this is the pure form of geometric construction no numbers involved geometric sequence is a series of integers in which each element after the first is obtained by multiplying the preceding number by a constant factor when there is a common difference between subsequent terms represented as d a series can be arithmetic

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sal introduces geometric sequences and their main features the initial term and the common ratio created by sal khan

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a is the first term and r is the factor between the terms called the common ratio example 1 2 4 8 the sequence starts at 1 and doubles each time so a 1 the first term r 2 the common ratio between terms is a doubling and we get a ar ar² ar³ 1 1 2 1 2 2 1 2 3

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key takeaways a geometric sequence is a sequence where the ratio r between successive terms is constant the general term of a geometric sequence can be written in terms of its first term a₁ common ratio r and index n as follows $a_n = a_1 r^{n-1}$ a geometric series is the sum of the terms of a geometric sequence

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in geometric sequences the ratio between consecutive terms is always the same we call that ratio the common ratio for example the common ratio of the following sequence is 2 geometric sequence formulas give a_n the nth term of the sequence

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this geometric series calculator will help you understand the geometric sequence definition so you could answer the question what is a geometric sequence we explain the difference between both geometric sequence equations the explicit and recursive formula for a geometric sequence and how to use the geometric sequence formula with some

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a geometric sequence is a special type of sequence where the ratio of every two successive terms is a constant this ratio is known as a common ratio of the geometric sequence in other words in a geometric sequence every term is multiplied by a constant which results in its next term

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the two simplest sequences to work with are arithmetic and geometric sequences an arithmetic sequence goes from one term to the next by always adding or subtracting the same value for instance 2 5 8 11 14 is arithmetic because each step adds three and 7 3 1 5 is arithmetic because each step subtracts 4

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a geometric series is the sum of finite or infinite terms of a geometric sequence for the geometric sequence a ar ar^2 ar^{n-1}

the corresponding geometric series is $a + ar + ar^2 + \dots + ar^{n-1}$ we know that series means sum

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definition geometrical shapes are the figures which represent the forms of different objects some figures are two dimensional whereas some are three dimensional shapes the two dimensional figures lie on only the x axis and y axis but 3d shapes lie on the x y and z axes

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geometric sequence is a series of integers in which each element after the first is obtained by multiplying the preceding number by a constant factor when there is a common difference between subsequent terms represented as d a series can be arithmetic

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