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How to find the value of r in geometric progression

Given our generic geometric sequence... ...we can look at it as a series. As we can see, the only difference between a sequence and a series is that a sequence is a list of numbers and a series is a sum of numbers. There exists a formula that can add a finite list of numbers and a formula for an infinite list of numbers. Here are the formulas... ...where Sn is the sum of the first n numbers, a1 is the first number in the sequence, r is the common ratio of the sequence, and -1 < r < 1 for infinite series. Let's use examples to investigate both formulas. Example 1: Find the sum of the first 7 terms of the sequence below. n12345 . . . Term124816 . . . The sum formula requires us to know the first term [a1], the common ratio [r], and the number of terms [n]. We know the first term is 1. The common ratio is 2. The number of terms is 7. Plugging this information into the formula give us this. So, the sum of the first 7 terms is 127. Example 2: Add the first 10 terms of the sequence below. n12345 . . . Term0.010.060.362.1612.96 . . . We can see a1 = 0.01, r = 6 and we were told n = 10. We would then plug those numbers into the formula and get this. So, the sum of the first 10 terms is 120,932.35. ideo: Sum of a Finite Geometric Series uizmaster: Finding the Sum of a Finite Series Example 3: Add the infinite series 16 + (-8) + 4 + (-2) + 1 + ... The only way we can add an infinite series is for two conditions to be met: a) it has to be a geometric series and b) the common ratio has to be greater than -1 but less than 1. Looking at the series, we can see that there is a common ratio. This means it is geometric. Since the common ratio is -1/2 and it falls between -1 and 1, we can use the sum formula. We will use a1 = 16 and r = -1/2. This means the entire infinite series is equal to 102/3. Example 4: Add the infinite sum 27 + 18 + 12 + 8 + ... We need to check the conditions to see if we can use the infinite sum formula. It does have a common ratio. It is 2/3. Since 2/3 is less than 1 and greater than -1, we can use the formula, like this. ideo: Sum of an Infinite Geometric Series uizmaster: Finding the Sum of an Infinite Series We have seen that the sum of the first \(n\) terms of a geometric series with first term \(a\) and common ratio \(r\) is \[S_n = \dfrac{a(1 - r^n)}{1 - r}, \quad\text{for } req 1. \] In the case when \(r\) has magnitude less than 1, the term \(r^n\) approaches 0 as \(n\) becomes very large. So, in this case, the sequence of partial sums \(S_1,S_2,S_3,\dots\) has a limit: \[\lim_{n\to \infty} S_n = \lim_{n\to \infty} \dfrac{a(1 - r^n)}{1 - r} = \dfrac{a}{1 - r}. \] The value of this limit is called the limiting sum of the infinite geometric series. The values of the partial sums \(S_n\) of the series get as close as we like to the limiting sum, provided \(n\) is large enough. The limiting sum is usually referred to as the sum to infinity of the series and denoted by \(S_\infty\). Thus, for a geometric series with common ratio \(r\) such that \(|r|

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