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Sum of infinite geometric series worksheet

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Download the set(5 Sheets) Evaluate series: Type 3 Find the first term and common relationship to solve this series of Type 3 pdf spreadsheets involving infinite geometric series in summation annotation (sigma). Download the set(5 Sheets) In this worksheet, we will practice determining whether a geometric series is converging and finding the border. Find the value of an infinite geometric series: Infinite geometric series means the series will never end. The series that is in the form of $a + ar + ar^2 + ar^3 + \dots$ called geometric series. We have a formula to find the sum of infinite geometric series Example 1: Find the sum of the infinite geometric series. Solution :To find the sum of the infinite geometric series, we need to use the formula $a / (1-r)$ here First term(a)= 1 and common ratio(s)= $a_2/a_1 = (3/4)/1 = 3/4$ sum of the given infinity series = $1/[1 - (3/4)] = 1 / (1/4) = 4$ Hence sum of infinity series is 4. Example 2 :Find the sum of infinite geometric series. Solution :To find the sum of the infinite geometric series, we need to use the formula $a / (1-r)$ here First term(a)= 1 and common ratio(s)= $a_2/a_1 = (2/3)/1 = 2/3$ sum of the given infinity series = $1/[1 - (2/3)] = 1 / (1/3) = 3$ Hence sum of infinity series is 3. Example 3: Find the sum of infinite geometric series. Solution :To find the sum of the infinite geometric series, we need to use the formula $a / (1-r)$ here, first term (a) = 1 and common ratio (s) = $a_2/a_1 = (1/2)/1 = 1/2$ sum of the given infinite series = $1/[1 - (1/2)] = 1 / (2/2) = 2$ Hence sum of the infinite series is 2. Example 4: Find the sum of the infinite geometric series. Solution :To find the sum of the infinite geometric series, we need to use the formula $a / (1-r)$ here, first term (a)= 1 and common ratio(s)= $a_2/a_1 = (3/5)/1 = 3/5$ sum of the given infinite = $1/[1 - (3/5)] = 1 / (2/5) = 5/2$ Hence sum of infinity series is 2. Example 5: Find the sum of the infinite geometric series. Solution :To find the sum of the infinite geometric series, we need to use the formula $a / (1-r)$ here, first term (a)= 1 and common ratio(s)= $a_2/a_1 = (1/4)/1 = 1/4$ sum of the given infinity series = $1/[1 - (1/4)] = 1/(3/4) = 4/3$ Hence sum of infinity series is 4/3. Apart from things given on this website, if you need other things in mathematics, you can use our google custom search here. If you have feedback about our math content, please email us: v4formath@gmail.com We always appreciate your feedback. You can also visit the following websites on different things in mathematics. 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