

Algebra II

11-6

Infinite Geometric Series

Sum of an infinite geometric series:

For each geometric series, find the sum. If the series has no sum, say so.

1) $24 + 12 + 6 + 3 + \dots$

11)
$$\sum_{n=0}^{\infty} 3\left(\frac{1}{4}\right)^n$$

Write the first three terms of the infinite geometric series satisfying the given condition.

23) $t_1 = 8, S_{\infty} = 12$

Assignment:

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1-12 all,

24-26 all