Analysis CP- Can You

Chapter 12: Sequences and Series

CAN YOU:

 Given a sequence of numbers,

o Determine if the sequence is arithmetic, geometric, or neither?

o Write the next several terms of the sequence?

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o Find the term value for a specific number *n*?

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o Write the formula for *an* ?

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o Find the sum of the first *n* terms?

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o Find the infinite sum if it exists?

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o Express the sum using sigma notation?

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 Write an arithmetic/geometric sequence given two terms and one or more means between them?

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 Find lim *an n*

given a sequence or the formula for *an* ?

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 Given a series in sigma notation, find:

o Expanded form of the series and the sum of the series?

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 Write a binomial in expanded form, using the binomial theorem and combinations or Pascal’s triangle?

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 Find a specific term of a binomial expansion?

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 Prove a formula is true by using Mathematical Induction?

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 Solve real world application problems using sequences and/or series?