

Sequences & Series

SEQUENCE

A sequence is _____

Finite: has a final term. Ex: {3, 6, 9, 12, 15}

Infinite: doesn't end. Ex: {4, 8, 12, 16, 20, ...}

explicit

like a formula – plug positive integers in to generate terms of the sequence.

Write the first four terms of

$$a_n = n^2 + 1$$

$$a_1 \quad a_2 \quad a_3 \quad a_4$$

{ , , , }

Write the explicit definition for the n^{th} term.
 a) 1, 3, 9, 27, 81
 b) $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{16}, \dots$

recursive

Has 2 parts: 1st term, and a rule for how successive terms are related.

Write the first four terms of

$$b_1 = -10; b_n = b_{n-1} + 5$$

$$b_1 \quad b_2 \quad b_3 \quad b_4$$

{ -10, , , }

Factorial

If n is a positive integer, n factorial is:

$$n! = 1 \cdot 2 \cdot 3 \cdot \dots \cdot (n-1) \cdot n$$

Special case: $0! = 1$

Graphing calculator – Math > PRB > 4: !

Find each of the following:

a) $5!$

b) $\frac{8!}{2!6!}$

c) $\frac{9!}{3!7!}$

d) $\frac{(n+1)!}{n!}$

Graphing Calculator Steps for Series:

Ex. Find $\sum_{k=3}^6 (1 + k^2)$

1. 2nd > STAT > MATH > 5: sum(

2. 2nd > STAT > OPS > 5: seq(

3. Input info (separate with commas)

- a. General term $1 + X^2$,
- b. Variable (next to ALPHA) X ,
- c. Lower Limit 3,
- d. Upper Limit 6

sum(seq(1+X^2, X, 3, 6))

90

Series

A series is _____

Summation Notation – a way to write a series.

$$\sum_{i=1}^n a_i = a_1 + a_2 + a_3 + \dots + a_n$$

i is the index, n is the upper limit,
 1 is the lower limit.



Types of Series:

Finite or n^{th} partial sum:

$$\text{Ex. } a_1 + a_2 + a_3 + \dots + a_n = \sum_{i=1}^n a_i$$

Infinite:

$$\text{Ex. } a_1 + a_2 + a_3 + \dots + a_n + \dots = \sum_{i=1}^{\infty} a_i$$

Find each sum.

a) $\sum_{i=1}^5 3i$

b) $\sum_{k=3}^6 (1 + k^2)$

c) $\sum_{i=1}^{\infty} \frac{3}{10^i}$

Sequences Series And Probability Study Guide Answers

Bruce A. Chase, Peter J. Russell

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