

Lesson 2.1

Sequences and Series

2.1.1 Sequences

In mathematics, the word *sequence* is used in much the same way as in ordinary English. Saying that a collection is listed in sequence means that it is ordered so that it has a first member, a second member, a third member, and so on.

Mathematically, you can think of a sequence as a function whose domain is the set of positive integers.

$$f(1) = a_1, f(2) = a_2, f(3) = a_3, f(4) = a_4, \dots, f(n) = a_n, \dots$$

Rather than using function notation, however, sequences are usually written using subscript notation, as indicated in the following definition.

Definition of Sequence

An infinite sequence is a function whose domain is the set of positive integers. The function values

$$a_1, a_2, a_3, a_4, \dots, a_n, \dots$$

are the terms of the sequence. If the domain of the function consists of the first positive integers only, the sequence is a finite sequence.

On occasion it is convenient to begin subscripting a sequence with 0 instead of 1 so that the terms of the sequence become $a_0, a_1, a_2, a_3, \dots$

Writing the Terms of a Sequence

Write the first four terms of the sequences given by

a. $a_n = 3n - 2$

b. $a_n = 3 + (-1)^n$

Solution:

a. The first terms of the sequence given by $a_n = 3n - 2$ are

$$a_1 = 3(1) - 2 = 1 \quad \text{1st term}$$

$$a_2 = 3(2) - 2 = 4 \quad \text{2nd term}$$

$$a_3 = 3(3) - 2 = 7 \quad \text{3rd term}$$

$$a_4 = 3(4) - 2 = 10, \quad \text{4th term}$$

b. The first terms of the sequence given by $a_n = 3 + (-1)^n$ are

$$a_1 = 3 + (-1)^1 = 3 - 1 = 2 \quad \text{1st term}$$

$$a_2 = 3 + (-1)^2 = 3 + 1 = 4 \quad \text{2nd term}$$

$$a_3 = 3 + (-1)^3 = 3 - 1 = 2 \quad \text{3rd term}$$

$$a_4 = 3 + (-1)^4 = 3 + 1 = 4, \quad \text{4th term}$$

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