

Study Guide

Student Edition
Pages 648–655

Arithmetic Sequences

A set of numbers in a specific order is called a **sequence**. Each number in a sequence is called a **term**. The first term is symbolized by a_1 , and the second term by a_2 , so that, in general, a_n represents the n th term. An **arithmetic sequence** is a sequence in which each term, after the first, is found by adding a constant, called the *common difference*, to the previous term.

 n th Term of an Arithmetic Sequence

The n th term, a_n , of an arithmetic sequence with first term a_1 and common difference d is given by the formula $a_n = a_1 + (n - 1)d$, where n is a positive integer.

Example: Find the tenth term, a_{10} , of the arithmetic sequence with $a_1 = 7$ and $d = 3$.

$$\begin{aligned} a_n &= a_1 + (n - 1)d \\ a_{10} &= 7 + (10 - 1)3 \\ &= 7 + 27 \\ &= 34 \end{aligned}$$

The tenth term is 34.

Find the indicated term in each arithmetic sequence.

1. a_{12} for $a_1 = 4$, $d = 6$
82

2. a_{12} for $a_1 = -4$, $d = -2$
-26

3. a_{12} for $a_1 = 5$, $d = -3$
-37

4. a_{10} for 0, -3, -6, -9, ...
-27

5. a_{12} for 4, 10, 16, 22, ...
70

6. a_{11} for 10, 6, 2, -2, ...
-70

Find the missing terms in each arithmetic sequence.

7. 5, 3, 1, -1, -3

8. -7, -5, -3, -1, 1

9. 24, 33, 42, 51, 60

10. 18, 13, 8, 3, -2

11. 17, 10, 3, -4, -11

12. 12, 10, 8, 6, 4, 2

Arithmetic And Geometric Study Guide

Educational Testing Service

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Arithmetic And Geometric Study Guide:

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