

## Study Guide

### 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.  $a_{10}$  for  $a_1 = 4$ ,  $d = 6$

**82**

2.  $a_{10}$  for  $a_1 = -4$ ,  $d = -2$

**-26**

3.  $a_{10}$  for  $a_1 = 5$ ,  $d = -3$

**-37**

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

**-27**

5.  $a_{10}$  for 4, 10, 16, 22, ...

**70**

6.  $a_{10}$  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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