

Arithmetic and Geometric Sequences

12) How do you determine the explicit formula for both types of sequences?

Definition of an Arithmetic Sequence

In an arithmetic sequence, the difference between one term and the next is constant.

What if you don't know the previous terms a_{n-1} ?

Use the formula: $a_n = a_1 + d(n - 1)$

where a_1 = the first term and d = constant difference

Example 1: Consider the sequence 2, 9, 16, 23, ...

f) Find the explicit formula for a_n .

$$a_n = 2 + 7(n - 1) \text{ or } 7n - 5$$

g) Find the 100th term of the sequence.

$$a_{100} = 7(100) - 5 = 695$$

h) Determine whether the following numbers belong to the sequence:

i) 828

$$\text{Solve: } 828 = 7n - 5$$

Since $n = 119$ (an integer), 828 does belong to the sequence.

j) 2343

$$\text{Solve: } 2343 = 7n - 5$$

Since $n \neq$ an integer, 2343 does not belong to the sequence.

You Do 1: Consider the sequence 87, 83, 79, 75, ...

k) Find the explicit formula for a_n .

$$a_n = 87 - 4(n - 1) \text{ or } -4n + 91$$

l) Find the 50th term.

$$a_{50} = -4(50) + 91 = -109$$

m) Determine whether the following numbers belong to the sequence:

n) 16

$$\text{Solve: } 16 = -4n + 91$$

Since $n \neq$ an integer, 16 does not belong to the sequence.

o) -149

$$\text{Solve: } -149 = -4n + 91$$

Since $n \neq$ an integer, -149 does not belong to the sequence.

Arithmetic Sequences

Example 2: Given a sequence where

$a_1 = 8$ and $a_5 = -17$, find the first term (a_1) and the common difference (d).

$$a_1 + 4d = 8$$

$$a_1 + 7d = -17$$

$$a_1 = 18, d = -5$$

When solving a system of equations, consider the 3 methods for solving:

1. graphing
2. substitution
3. elimination

You Do 2: Find a_1 and d in an arithmetic sequence with $a_7 = 31$ and $a_{12} = -17$.

$$a_1 + 6d = 31$$

$$a_1 + 11d = -17$$

$$a_1 = 79, d = -8$$

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