

## 8.2 – Arithmetic & Geometric Sequences Practice

**Aim:** I can represent arithmetic and geometric sequences by an equation.

**Warm Up:** Compare these three questions. Why are they the *same*?

- 1) Find the 10<sup>th</sup> term of the sequence: 2, 5, 8, 11, 14, ...

29

- 2) Find  $a_{10}$  for the sequence  $a_n = \{2, 5, 8, 11, 14, \dots\}$

29

- 3) For  $f(n) = 3n - 1$ , find  $f(10)$

$$f(10) = 3(10) - 1 = 30 - 1 = 29$$

**Arithmetic Sequence** – is a sequence of terms that have a common **difference** between them.

General Term:

$$a_n = a_1 + d(n - 1)$$

$$f(n) = f(1) + d(n - 1)$$

**Geometric Sequence** – is a sequence of terms that have a common **ratio** between them.

General Term:

$$a_n = a_1(r)^{n-1}$$

$$f(n) = f(1)(r)^{n-1}$$

- 1) Are the following sequences arithmetic, geometric, or neither? If they are arithmetic, state the value of the common difference ( $d$ ). If they are geometric, state the value of the common ratio ( $r$ ).

- A) 6, 12, 18, 24, ...

Add 6

Arithmetic  $d = 6$

- D) 160, 80, 40, 20, ...

divide by 2

geometric

$$r = \frac{1}{2}$$

- B) 6, 11, 17, ...

neither

- E) -40, -25, -10, 5, ...

add 15

arithmetic

$$d = 15$$

- C) 2, 14, 98, 686, ...

multiply 7

geometric  $r = 7$

- F) 7, -21, 63, -189, ...

multiply -3

geometric

$$r = -3$$

# Practice With Arithmetic And Geometric Sequences

**Reza Nazari, Ava Ross**



## **Practice With Arithmetic And Geometric Sequences:**

## Unveiling the Magic of Words: A Report on "**Practice With Arithmetic And Geometric Sequences**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Practice With Arithmetic And Geometric Sequences**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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