

## 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

**Sabine Zange**





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