

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 10th term of the sequence: 2, 5, 8, 11, 14, ...

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

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- 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 Form G Geometric Sequences

Brendan G. Carr

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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