

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, ...

$$29$$

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, ... B) 6, 11, 17, ... C) 2, 14, 98, 686, ...
Add 6 neither multiply 7
Arithmetic $d = 6$ geometric $r = 7$
D) 160, 80, 40, 20, ... E) -40, -25, -10, 5, ... F) 7, -21, 63, -189, ...
divide by 2 add 15 multiply -3
geometric arithmetic geometric
 $r = \frac{1}{2}$ $d = 15$ $r = -3$

Arithmetic And Geometric Sequences Answers

Usatestprep

David R. Turner

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Arithmetic and Geometric Sequences Open University. Mathematics Foundation Course Team, 1970
Questions and Answers Review David R. Turner, 1973

Arco Arithmetic

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