# 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?

- Find the 10<sup>th</sup> term of the sequence: 2, 5, 8, 11, 14, ...
- 2) Find  $a_{10}$  for the sequence  $a_n = \{2, 5, 8, 11, 14, ...\}$
- 3) For f(n) = 3n 1, find f(10)

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

<u>Arithmetic Sequence</u> – is a sequence of terms that have a common <u>difference</u> 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:

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

 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).

Add 6

Arithmetic d = 6

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

divide by 2

geometric

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

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

$$r = -3$$

8

# <u>Algebra 2 Arithmetic And Geometric Sequences Answers</u>

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# **Table of Contents Algebra 2 Arithmetic And Geometric Sequences Answers**

- 1. Understanding the eBook Algebra 2 Arithmetic And Geometric Sequences Answers
  - The Rise of Digital Reading Algebra 2 Arithmetic And Geometric Sequences Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Algebra 2 Arithmetic And Geometric Sequences Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Algebra 2 Arithmetic And Geometric Sequences Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Algebra 2 Arithmetic And Geometric Sequences Answers
  - Personalized Recommendations
  - Algebra 2 Arithmetic And Geometric Sequences Answers User Reviews and Ratings
  - Algebra 2 Arithmetic And Geometric Sequences Answers and Bestseller Lists

- 5. Accessing Algebra 2 Arithmetic And Geometric Sequences Answers Free and Paid eBooks
  - Algebra 2 Arithmetic And Geometric Sequences Answers Public Domain eBooks
  - Algebra 2 Arithmetic And Geometric Sequences Answers eBook Subscription Services
  - Algebra 2 Arithmetic And Geometric Sequences Answers Budget-Friendly Options
- 6. Navigating Algebra 2 Arithmetic And Geometric Sequences Answers eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Algebra 2 Arithmetic And Geometric Sequences Answers Compatibility with Devices
  - Algebra 2 Arithmetic And Geometric Sequences Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Algebra 2 Arithmetic And Geometric Sequences Answers
  - Highlighting and Note-Taking Algebra 2 Arithmetic And Geometric Sequences Answers
  - Interactive Elements Algebra 2 Arithmetic And Geometric Sequences Answers
- 8. Staying Engaged with Algebra 2 Arithmetic And Geometric Sequences Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Algebra 2 Arithmetic And Geometric Sequences Answers
- 9. Balancing eBooks and Physical Books Algebra 2 Arithmetic And Geometric Sequences Answers
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Algebra 2 Arithmetic And Geometric Sequences Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra 2 Arithmetic And Geometric Sequences Answers
  - Setting Reading Goals Algebra 2 Arithmetic And Geometric Sequences Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra 2 Arithmetic And Geometric Sequences Answers
  - Fact-Checking eBook Content of Algebra 2 Arithmetic And Geometric Sequences Answers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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