

5. Here are the first three figures of a pattern.



Figure 1



Figure 2



Figure 3

Arithmetic

$$d = +3$$

- a. List the numbers of line segments in Figures 1-7.

Figure	1	2	3	4	5	6	7
Segments	4	7	10	13	16	19	22

- b. Write a recursive formula that generates the sequence you found in part a.

$$U_n = U_{n-1} + 3 \quad U_1 = 4 \quad n \geq 2$$

- c. Write an explicit formula that generates the sequence you found in part a.

$$U_n = 3n + 1 \quad \text{or} \quad U_n = 3(n-1) + 4$$

- d. How many line segments are in Figure 20?

$$U_{20} = 3(20) + 1 = 61$$

- e. Which figure has 145 line segments?

$$145 = 3n + 1 \quad 144 = 3n \quad \frac{144}{3} = n \quad n = 48 \quad U_{48}$$

6. Consider the sequence 0.05, 0.15, 0.45, 1.35, 4.05, ...

- a. Write a recursive formula for the sequence. Use  $u_1$  to represent the starting term.

$$U_n = 3 \cdot U_{n-1} \quad U_1 = 0.05 \quad n \geq 2$$

- b. Write an explicit formula for the sequence.

$$U_n = 0.05 \cdot 3^{(n-1)} \quad \text{or} \quad U_n = .016 \cdot 3^n$$

- c. What is the 7<sup>th</sup> term of the sequence?

$$U_7 = 0.05 \cdot 3^{(7-1)} \quad U_7 = 0.05 \cdot (729) = 36.45$$

- d. Which term of the sequence is the first to be greater than 20,000?

$$\frac{20,000}{0.05} = 0.05 \cdot 3^{n-1}$$

$$400,000 = 3^{n-1}$$

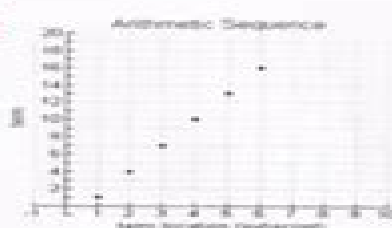
$$3^{13} = 26,572.05$$

$$U_{13}$$

7. Write an equation to define the sequence  $U_n$  graphed below.

n	$U_n$
1	1
2	4
3	7
4	10
5	13
6	16

$$d = +3$$



$$U_n = 3n - 2$$

or

$$U_n = 3(n-1) + 1$$

Geometric  
 $r = 3$

# Geometric Arithmetic Sequence Answer Key

**DP Hallahan**



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## **Table of Contents Geometric Arithmetic Sequence Answer Key**

1. Understanding the eBook Geometric Arithmetic Sequence Answer Key
  - The Rise of Digital Reading Geometric Arithmetic Sequence Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Geometric Arithmetic Sequence Answer Key
  - 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 Geometric Arithmetic Sequence Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Geometric Arithmetic Sequence Answer Key
  - Personalized Recommendations
  - Geometric Arithmetic Sequence Answer Key User Reviews and Ratings
  - Geometric Arithmetic Sequence Answer Key and Bestseller Lists
5. Accessing Geometric Arithmetic Sequence Answer Key Free and Paid eBooks
  - Geometric Arithmetic Sequence Answer Key Public Domain eBooks
  - Geometric Arithmetic Sequence Answer Key eBook Subscription Services
  - Geometric Arithmetic Sequence Answer Key Budget-Friendly Options
6. Navigating Geometric Arithmetic Sequence Answer Key eBook Formats

- ePub, PDF, MOBI, and More
  - Geometric Arithmetic Sequence Answer Key Compatibility with Devices
  - Geometric Arithmetic Sequence Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Geometric Arithmetic Sequence Answer Key
    - Highlighting and Note-Taking Geometric Arithmetic Sequence Answer Key
    - Interactive Elements Geometric Arithmetic Sequence Answer Key
  8. Staying Engaged with Geometric Arithmetic Sequence Answer Key
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Geometric Arithmetic Sequence Answer Key
  9. Balancing eBooks and Physical Books Geometric Arithmetic Sequence Answer Key
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Geometric Arithmetic Sequence Answer Key
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Geometric Arithmetic Sequence Answer Key
    - Setting Reading Goals Geometric Arithmetic Sequence Answer Key
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Geometric Arithmetic Sequence Answer Key
    - Fact-Checking eBook Content of Geometric Arithmetic Sequence Answer Key
    - 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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