

## 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

$$r = -3$$

# Geometric Sequences Practice B Lesson 9 1

**McGraw Hill**



## Geometric Sequences Practice B Lesson 9 1:

Algebra: Themes, Tools, Concepts -- Teachers' Edition Henri Picciotto, Anita Wah, 1994      Math Advantage, Grade 8  
Grace M. Burton, Harcourt Brace, 1998-05-22      Differentiation in Practice: A Resource Guide for Differentiating Curriculum, Grades 9-12 Carol Ann Tomlinson, Cindy A. Strickland, 2005-08-15 Join Carol Ann Tomlinson and Cindy A Strickland in the continuing exploration of how real teachers incorporate differentiation principles and strategies throughout an entire instructional unit Focusing on the high school grades but applicable at all levels Differentiation in Practice Grades 9 12 will teach anyone interested in designing and implementing differentiated curriculum how to do so or how to do so more effectively Inside you ll find Annotated lesson plans for differentiated units in English mathematics history science art and world languages Samples of differentiated product assignments learning contracts rubrics and homework handouts An overview of the non negotiables in differentiated classrooms and guidelines for using the book as a learning tool An extended glossary and recommended readings for further exploration of key ideas and strategies Each unit highlights underlying standards delineates learning goals and takes you step by step through the instructional process Unit developers provide running commentary on their use of flexible grouping and pacing tiered assignments and assessments and numerous other strategies The models and insight presented will inform your own differentiation efforts and help you meet the challenge of mixed ability classrooms with academically responsive curriculum appropriate for all learners      Prentice Hall Math Algebra 2 Study Guide and Practice Workbook 2004c Prentice-Hall Staff, 2003-12 Prentice Hall Mathematics offers comprehensive math content coverage introduces basic mathematics concepts and skills and provides numerous opportunities to access basic skills along with abundant remediation and intervention activities      New York Math: Math B ,2000      Prentice Hall New York Math: Math B ,2001      Algebra 2 McDougal Littell Incorporated, Ron Larson, 2004      Pre-Algebra: an Integrated Technology Transition to Algebra and Geometry Student Edition McGraw Hill, 2000-05-30 Glencoe Pre Algebra An Integrated Transition to Algebra and Geometry perfectly blends skill and concept development with the applications connections and critical thinking your students need to understand and apply algebra and geometry      *Glencoe Mathematics* William Collins, 1999      **Glencoe Mathematics** Glencoe, 1998-03 Motivate your students with relevant real world applications correlated Internet connections and additional skill practice in a variety of formats Reach all your students by balancing practice and skill development with hands on activities technology and projects and investigations Prepare students for success on standardized tests and in future math courses with a wide variety of assessment options and strong developmental links from arithmetic to algebra      **Merrill Pre-Algebra Student Edition 1995** McGraw-Hill, 1994-01-24      **Algebra 2** Ron Larson, 1993      **Mathematics** GLENCOE, 1995      **Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 4** Edm, University of Chicago. School Mathematics Project, 2008 The Teacher s Lesson Guide provides easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning

and assessment tips and multilevel differentiation strategies for all learners This English Spanish Edition provides dual language support     *Advanced Mathematical Concepts Transparency Sampler 2001* McGraw-Hill Staff,2001     *Prentice Hall Math Course 3 Adapted Student Workbook 2007c* Prentice-Hall Staff,2006-07-15 Prentice Hall Mathematics Course 3 A solid foundation preparing students for Algebra 1 Chapters 1 3 provide a solid foundation of integers rational numbers and real numbers setting the stage for equations inequalities and functions Real World applications to the more abstract algebraic concepts are found throughout the text An average of over five Activity Labs per chapter ensures students receive the visual and special instruction necessary to conceptualize these abstract concepts better preparing them for advanced math courses     *Glencoe Algebra 1* ,2001     *Math Trailblazers 2E G3 Teacher Implemenation Guide* TIMS Project,2004 A complete research based K 5 mathematics program integrating math science and language arts The program embodies the NCTM Principles and standards for school mathematics and is based on the ideas that mathematics is best learned by solving problems in real world contexts and that a curriculum should balance conceptual understanding and procedural skill P 4 of cover     McGraw-Hill's SAT I Black-Anestis,2004-06-02 The only book that gives students the reasoning skills they need to master the new SAT McGraw Hill s SAT I is the only test preparation guide based on developing a student s reasoning skills the very skills the SAT is designed to measure Rather than learning by rote students learn how to develop eight essential thinking skills allowing them to approach any problem from any angle McGraw Hill s SAT I includes An in depth look at all changes to the SAT including comprehensive coverage of new topics such as Algebra II and the English Essay A diagnostic SAT simulation with fully explained answers Subject tabs for easy to find reference Time and stress management skills to help students stay focused calm and confident No other test preparation guide gives students The 8 essential thinking skills for solving any problem in the math critical reading and essay sections 6 full length simulated SATs and 20 practice essays Pullout flash cards covering all sections of the test A step by step approach to writing the essay including what exam graders will be looking for     *Integrated Mathematics* Holt McDougal,1998

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## **Table of Contents Geometric Sequences Practice B Lesson 9 1**

1. Understanding the eBook Geometric Sequences Practice B Lesson 9 1
  - The Rise of Digital Reading Geometric Sequences Practice B Lesson 9 1
  - Advantages of eBooks Over Traditional Books
2. Identifying Geometric Sequences Practice B Lesson 9 1
  - 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 Sequences Practice B Lesson 9 1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Geometric Sequences Practice B Lesson 9 1
  - Personalized Recommendations
  - Geometric Sequences Practice B Lesson 9 1 User Reviews and Ratings
  - Geometric Sequences Practice B Lesson 9 1 and Bestseller Lists

5. Accessing Geometric Sequences Practice B Lesson 9 1 Free and Paid eBooks
  - Geometric Sequences Practice B Lesson 9 1 Public Domain eBooks
  - Geometric Sequences Practice B Lesson 9 1 eBook Subscription Services
  - Geometric Sequences Practice B Lesson 9 1 Budget-Friendly Options
6. Navigating Geometric Sequences Practice B Lesson 9 1 eBook Formats
  - ePub, PDF, MOBI, and More
  - Geometric Sequences Practice B Lesson 9 1 Compatibility with Devices
  - Geometric Sequences Practice B Lesson 9 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Geometric Sequences Practice B Lesson 9 1
  - Highlighting and Note-Taking Geometric Sequences Practice B Lesson 9 1
  - Interactive Elements Geometric Sequences Practice B Lesson 9 1
8. Staying Engaged with Geometric Sequences Practice B Lesson 9 1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Geometric Sequences Practice B Lesson 9 1
9. Balancing eBooks and Physical Books Geometric Sequences Practice B Lesson 9 1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Geometric Sequences Practice B Lesson 9 1
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Geometric Sequences Practice B Lesson 9 1
  - Setting Reading Goals Geometric Sequences Practice B Lesson 9 1
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geometric Sequences Practice B Lesson 9 1
  - Fact-Checking eBook Content of Geometric Sequences Practice B Lesson 9 1
  - 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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