

## 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, ...      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  
 $r = \frac{1}{2}$                                $d = 15$                                $r = -3$

# Geometric Sequences Practice B Lesson 9 1

**McGraw Hill**

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**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 Implementation 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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