

Name: \_\_\_\_\_ Class Period: \_\_\_\_\_ Date: \_\_\_\_\_

# Arithmetic Sequences + Series - Notes + Practice

## Arithmetic Sequences:

### Vocabulary

Arithmetic Sequence:

Common Difference:

### Formulas

Explicit  $a_n = a_1 + d(n - 1)$

Recursive  $a_n = \begin{cases} a_1, n = 1 \\ a_{n-1} + d, n > 1 \end{cases}$

### Examples:

Write an explicit formula and find the 15<sup>th</sup> term of the sequence: 7, 12, 17, 22, ...

Write the recursive formula for the sequence: -3, 1, 5, 9, ...

### You Try:

Find the 20<sup>th</sup> term of the sequence: 30, 27.5, 25, 22.5, ...

What is the 10<sup>th</sup> term of the sequence:

$$a_n = \begin{cases} 63, n = 1 \\ a_{n-1} + 12, n > 1 \end{cases}$$

Find the error: A student writes the explicit formula for the sequence 6, 10, 14, 18, ... as:  $a_n = 6 + 4n$  and then says the 5<sup>th</sup> term is 26. What mistake did the student make and what is the correct 5<sup>th</sup> term?

# Lesson 12 3 Practice C Arithmetic Sequences And Series

**Clemens Wendtner**



### **Lesson 12 3 Practice C Arithmetic Sequences And Series:**

**Algebra: Themes, Tools, Concepts -- Teachers' Edition** Henri Picciotto, Anita Wah, 1994      **Mathematics** GLENCOE, 1995      *Math Advantage* Grace M. Burton, Harcourt Brace, 1998-05-22      *Glencoe Mathematics* William Collins, 1999      **Algebra 2** Robert Gerver, South-Western Educational Publishing, 1998      **Glencoe Mathematics**, 2001  
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      **Algebra 2** Ron Larson, 1993      **El-Hi Textbooks and Serials in Print**, 2003      *The Arithmetic Teacher*, 1981      *The Software Encyclopedia*, 1988      **Index to Psychology: Multimedia** National Information Center for Educational Media, 1972  
**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      **Integrated Mathematics** Holt McDougal, 1998      *Index to Media and Materials for the Mentally Retarded, Specific Learning Disabled, Emotionally Disturbed* National Information Center for Special Education Materials, 1978  
**The software catalog microcomputers** Menu (Firm) (Fort Collins, Colo.), 1989      Arithmetic We Need Guy Thomas Buswell, 1959      *Programmed Learning* Carl H. Hendershot, 1967      *Mathematics Connections* Robert B. Ashlock, 1992  
*The Publishers Weekly*, 1889

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following questions. **Nuclear** ... 25.2 Nuclear Transformations | Lecture notes Chemistry These nuclei decay by turning a neutron into a proton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208  $^{208}\text{Fr} \rightarrow \text{b} \dots$