

4-6 Functions (Pages 226–231)

A function is a relation in which each element of the domain is paired with exactly one element of the range. Equations that are functions can be written in a form called **functional notation**, $f(x)$ (read “ f of x ”). In a function, x is an element of the domain and $f(x)$ is the corresponding element in the range.

Vertical Line Test

If each vertical line passes through no more than one point of the graph of a relation, then the relation is a function.

Example

a. Is $\{(1, 2), (1, 3)\}$ a function? Is $\{(1, 4), (3, 2), (5, 4)\}$ a function?

1st relation: not a function.

This relation has 1 paired with both 2 and 3.

2nd relation: a function.

In this relation, each x -value is paired with no more than one y -value. A function can have a y -value paired with more than one x -value.

b. If $f(x) = 3x - 1$ and $g(x) = 2x$, find $f(1)$ and $g(3)$.

$$f(x) = 3x - 1$$

$$f(1) = 3(1) - 1 \text{ or } 2$$

Replace x with 1.

$$g(x) = 2x$$

$$g(3) = 2(3) \text{ or } 6$$

Replace x with 3.

Practice

Determine whether each relation is a function.

1.

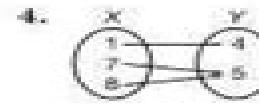
| x | y |
|-----|-----|
| -1 | 10 |
| 2 | 13 |
| -3 | 16 |

2.

| x | y |
|-----|-----|
| 2 | 0 |
| 2 | -1 |
| 3 | -4 |

3.

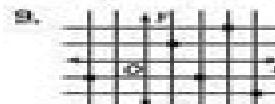
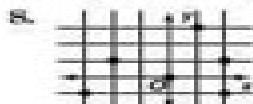
| x | y |
|-----|-----|
| 33 | 10 |
| 35 | 8 |
| 36 | 10 |



5. $\{(7, 4), (6, 3), (5, 2)\}$

6. $\{(15, 0), (15, -2)\}$

7. $\{(0, 1), (2, 1), (0, 3)\}$



Given $f(x) = -3x$ and $g(x) = x - 5$, find each value.

11. $f(7)$

12. $g(7)$

13. $g(-8)$

14. $f(-1)$

15. $f(x)$

16. $g(x)$

17. $2(g(9))$

18. $3(f(2))$

19. **Extended Test Practice** Martha pays a flat \$50 a month for the use of her cell phone. She also pays \$0.30 for each minute that she talks over 6 hours. The cost of her phone bill can be represented by $f(x) = 50 + 0.30x$, where x is the number of minutes past 6 hours that she uses the phone. Evaluate $f(60)$ to find the amount of her phone bill if she uses the phone for 7 hours.

A. \$68.30

B. \$68.00

C. \$50.30

D. \$18.00

Algebra Plato Mastery Test Answers

M Lipman

Algebra Plato Mastery Test Answers:

College Algebra and Trigonometry with Applications Terry H. Wesner,Philip H. Mahler,1994 [Resources in Education](#)
,1982 **THE Journal** ,1988 **Cognitive Assessment** Kikumi K. Tatsuoka,2009-05-22 This book introduces a new methodology for the analysis of test results Free from ambiguous interpretations the results truly demonstrate an individual s progress The methodology is ideal for highlighting patterns derived from test scores used in evaluating progress Dr Tatsuoka introduces readers to the Rule Space Method RSM a technique that transforms unobservable knowledge and skill variables into observable and measurable attributes RSM converts item response patterns into attribute mastery probabilities RSM is the only up to date methodology that can handle large scale assessment for tests such as the SAT and PSAT PSAT used the results from this methodology to create cognitively diagnostic scoring reports In this capacity RSM helps teachers understand what scores mean by helping them ascertain an individual s cognitive strengths and weaknesses For example two students may have the exact same score but for different reasons One student might excel at processing grammatically complex texts but miss the main idea of the prose while another excels at understanding the global message Such knowledge helps teachers customize a student s education to his or her cognitive abilities RSM is also used for medical diagnoses genetics research and to help classify music into various states of emotions for treating mental problems The book opens with an overview of cognitive assessment research and nonparametric and parametric person fit statistics The Q matrix theory is then introduced followed by the Rule Space method Various properties of attribute mastery probabilities are then introduced along with the reliability theory of attributes and its connection to classical and item response theory The book concludes with a discussion of how the construct validity of a test can be clarified with the Rule Space method Intended for researchers and graduate students in quantitative educational and cognitive psychology this book also appeals to those in computer science neuroscience medicine and mathematics The book is appropriate for advanced courses on cognometrics latent class structures and advanced psychometrics as well as statistical pattern recognition and classification courses taught in statistics and or math departments **Handbook of Response to Intervention** Shane R. Jimerson,Matthew K. Burns,Amanda VanDerHeyden,2007-08-14 Until now practitioners have had access to few detailed descriptions of RTI methods and the effective role they can play in special education The Handbook of Response to Intervention fills this critical information gap In this comprehensive volume more than 90 expert scholars and practitioners provide a guide to the essentials of RTI assessment and identification as well as research based interventions for improving students reading writing oral and math skills [The American Bookseller](#) ,1890 **Scouting** , Published by the Boy Scouts of America for all BSA registered adult volunteers and professionals Scouting magazine offers editorial content that is a mixture of information instruction and inspiration designed to strengthen readers abilities to better perform their leadership roles in Scouting and also to assist them as parents in strengthening families [Computer Applications in Reading](#) Jay S. Blanchard,George E.

Mason,Danny B. Daniel,1987 Intended as a reference for researchers teachers and administrators this book chronicles research programs and uses of computers in reading Chapter 1 provides a broad view of computer applications in education while Chapter 2 provides annotated references for computer based reading and language arts programs for children and adults in classroom and clinic settings including LOGO cloze procedure language experience approach special education spelling Native American education and English as a second foreign language Chapter 3 introduces the reader to software evaluation guidelines and criteria including references about the development of computer based reading programs and projects Chapter 4 reviews computer based research on teaching reading reading assessment and psychological and physiological aspects of the reading process Chapter 5 presents references on word processing writing and reading and Chapter 6 offers explanations for the puzzling questions surrounding computer based readability and text analysis References to computer based activities in reading readiness and beginning reading are presented in chapter 7 while chapter 8 discusses computer managed reading instruction Chapter 9 details advances in computer based speech technology and reading instruction and the focus in chapter 10 is on text legibility and computers Chapter 11 provides references about recent developments with CD ROMs Compact Disk Read Only Memory and CDIs compact disk interactive and chapter 12 summarizes by speculating on the importance of other emerging applications in computer based reading such as simulations artificial intelligence programming and authoring systems telecommunications and satellite communications and robots Two appendixes list companies that produce software and describe integrated learning systems that contain reading and language arts software SKC **Teaching Teens with ADD and ADHD** Chris A. Zeigler Dendy,2000 From the author of the highly acclaimed Teenagers with ADD comes a new book especially for teachers of teenagers with attention deficit disorder This book contains concise summaries of over fifty key issues related to ADD and school success From understanding the basics of ADD to using effective interventions everything a teacher needs to know is included in this book Busy teachers and administrators will appreciate the ease of using this quick reference Parents who see their children struggling can use this book at home especially when faced with homework difficulties and to help to co ordinate efforts with teachers Particularly helpful for the home school partnership are the many blank forms and checklists suitable for photocopying An invaluable tool this book gives teachers what they need to know in order to support their students and help them to succeed in school

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