

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.

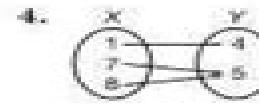
Practice

Determine whether each relation is a function.

x	y
-1	10
2	13
-3	16

x	y
2	0
2	-1
3	-4

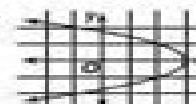
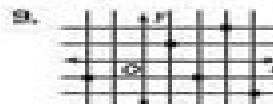
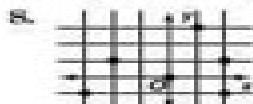
x	y
33	10
35	8
36	10



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

Answers For Algebra 1 Review For Mastery

Richard Madden

Answers For Algebra 1 Review For Mastery:

Math Is Easy So Easy, Combo Book: 7th Grade Math, Algebra I, Geometry I, Algebra II, Math Analysis, Calculus Nathaniel Max Rock, 2008-02 Rock separates math topics into those which are essential and nonessential so that the struggling math student can focus on the math topics which will return the greatest effect in the shortest amount of time

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Math 65 2e Answer Key & Tests Hake, 2008-02-02

Math Explorations and Applications Stephen S. Willoughby, Carl Bereiter, Peter Hilton, Joseph H. Rubinstein, WrightGroup/McGraw-Hill Staff, 2002-07

Bulletin Texas Education Agency, 1962

Intermediate Algebra with Early Functions James W. Hall, 1995 This popular pedagogically rich mainstream text in intermediate algebra was one of the first on the market to introduce functions early in Chapter 2 Graphing of linear systems is also introduced early in the text and the optional use of

graphing calculators is now integrated throughout **Algebra I-** Frank Millett Morgan,Burnham L. Paige,1958 **The Educational Review** ,1897 **Spelling** Richard Madden,1983 **Introductory Algebra** Patricia L. Hooper,1983 **Curriculum Review** ,1985 *Basic Algebra for College Students* Corrinne Pellillo Brase,Charles Henry Brase,1976 **Introduction to Algebra** Sandra Pryor Clarkson,1994 Algebra Demystified Rhonda Huettenmueller,2002-08-22 Whether you want to learn more about algebra refresh your skills or improve your classroom performance Algebra Demystified is the perfect shortcut Knowing algebra gives you a better choice of jobs helps you perform better in science computing and math courses ups your score on competitive exams and improves your ability to do daily computations And there s no faster or more painless way to master the subject than Algebra Demystified Entertaining author and experienced teacher Rhonda Huettenmueller provides all the math background you need and uses practical examples real data and a totally different approach to life the myst from algebra With Algebra Demystified you master algebra one simple step at a time at your own speed Unlike most books on the subject general concepts are presented first and the details follow In order to make the process as clear and simple as possible long computations are presented in a logical layered progression with just one execution per step THIS ONE OF A KIND SELF TEACHING TEXT OFFERS Questions at the end of every chapter and section to reinforce learning and pinpoint weaknesses A 100 questions final exam for self assessment An intensive focus on word problems and fractions help where it s most often needed Detailed examples and solutions **North Carolina Education** ... ,1935 **Introduction to Educational Research** Craig A. Mertler,2021-11-14 This Third Edition of Craig Mertler s practical text helps readers every step of the way as they plan and execute their first educational research project Offering balanced coverage of qualitative and quantitative methods an emphasis on ethics and a wealth of new examples and concrete applications the new edition continues to use conversational nontechnical language to help students clearly understand and apply research concepts principles procedures and terminology Expanded coverage of foundations of research an increased focus on integrating qualitative and quantitative research and updated coverage of research questions and the tools of qualitative research bring the book thoroughly up to date while streamlined coverage of statistics shows students how to do quantitative analysis in a straightforward way **Educational Times** ,1896 **Textbooks in Print** ,1957 **Saturday Review** ,1887 **American Journal of Physics** ,1974

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 - Chapter 4: Answers For Algebra 1 Review For Mastery in Specific Contexts
 - Chapter 5: Conclusion
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