Squaring and Rooting: Inverses

Warm-Up Solve each equation for *x*. Remember: These equations usually have *two* solutions.

A) $x^2 + 21 = 70$ B) $4x^2 - 12 = 13$ C) $(x - 3)^2 + 4 = 40$
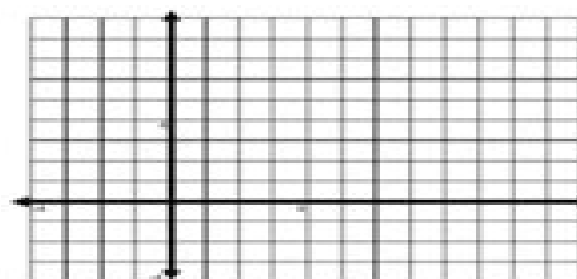
1. Review of Quadratic Functions

A. For the equation $y = x^2$, complete the table. Then plot points to construct the graph.

B. If the domain of the equation is $\{-3, -2, -1, 0, 1, 2, 3\}$, then what would be the range?

C. Is this equation a function? Explain.

$y = x^2$

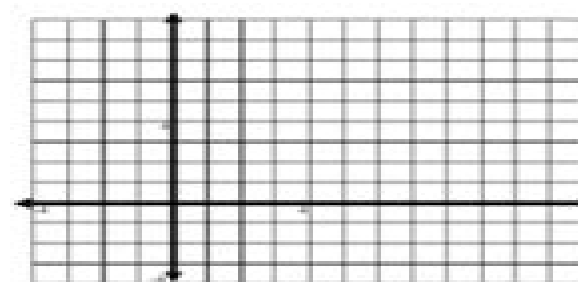| x	y
-3	
-2	
-1	
0	
1	
2	
3	

2. Inverse with Coordinates

A. Recall that an *inverse* can be formed by switching the *x*- and *y*-coordinates in a relation. Use this method to make a table and graph for the inverse of $y = x^2$.

B. Is this inverse a function? Explain.

Inverse

x	y
	-3
	-2
	-1
	0
	1
	2
	3

3. Inverse with Algebra

Remember that another way to find an *inverse* is to switch the *x* and *y* variables in an equation, then solve for the "new" *y*.

A. Use this algebraic method to find the inverse of $y = x^2$.

Equation: $y = x^2$

Inverse: _____ = _____²

Solve:

Notation: $f^{-1}(x) =$

B. Use a calculator to help you sketch the graph of this *inverse* equation in the box below.

Does this graph match your answer from #2? Explain.

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Squaring And Rooting Inverses Pp Of 4:

Algebra in Context Amy Shell-Gellasch,John Thoo,2015-10-15 An engaging new approach to teaching algebra that takes students on a historical journey from its roots to modern times This book s unique approach to the teaching of mathematics lies in its use of history to provide a framework for understanding algebra and related fields With Algebra in Context students will soon discover why mathematics is such a crucial part not only of civilization but also of everyday life Even those who have avoided mathematics for years will find the historical stories both inviting and gripping The book s lessons begin with the creation and spread of number systems from the mathematical development of early civilizations in Babylonia Greece China Rome Egypt and Central America to the advancement of mathematics over time and the roles of famous figures such as Descartes and Leonardo of Pisa Fibonacci Before long it becomes clear that the simple origins of algebra evolved into modern problem solving Along the way the language of mathematics becomes familiar and students are gradually introduced to more challenging problems Paced perfectly Amy Shell Gellasch and J B Thoo s chapters ease students from topic to topic until they reach the twenty first century By the end of Algebra in Context students using this textbook will be comfortable with most algebra concepts including Different number bases Algebraic notation Methods of arithmetic calculation Real numbers Complex numbers Divisors Prime factorization Variation Factoring Solving linear equations False position Solving quadratic equations Solving cubic equations nth roots Set theory One to one correspondence Infinite sets Figurate numbers Logarithms Exponential growth Interest calculations **Key Maths GCSE** ,2003 Developed for the CCEA Specification this Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for the non specialist useful supplementary ideas and homework sheets *Integers, Polynomials, and Rings* Ronald S. Irving,2004-01-08 This book began life as a set of notes that I developed for a course at the University of Washington entitled Introduction to Modern Algebra for Tea ers Originally conceived as a text for future secondary school mathematics teachers it has developed into a book that could serve well as a text in an dergraduatecourseinabstractalgebraoracoursedesignedasanintroduction to higher mathematics This book di ers from many undergraduate algebra texts in fundamental ways the reasons lie in the book s origin and the goals I set for the course The course is a two quarter sequence required of students intending to f ll the requirements of the teacher preparation option for our B A degree in mathematics or of the teacher preparation minor It is required as well of those intending to matriculate in our university s Master s in Teaching p gram for secondary mathematics teachers This is the principal course they take involving abstraction and proof and they come to it with perhaps as little background as a year of calculus and a quarter of linear algebra The mathematical ability of the students varies widely as does their level of ma ematical interest **Structural understanding in advanced mathematical thinking** Naďa Stehlíková,2004 **Linear Algebra Illustrated** Peter Saveliev, Elementary linear algebra in light of advanced This is one semester textbook on elementary linear algebra However in light of a more advanced point of view algebraic manipulations

are reduced to a minimum All prerequisites are included The exception is the last chapter that shows how linear algebra reveals hidden structures in basic calculus Appropriate for computing majors Contents Chapter 1 Sets and functions Chapter 2 Functions as transformations Chapter 3 The 2 dimensional space Chapter 4 Multidimensional spaces Chapter 5 Linear operators Chapter 6 A bird s eye view of basic calculus   Riemann-Hilbert Problems, Their Numerical Solution, and the Computation of Nonlinear Special Functions Thomas Trogdon,Sheehan Olver,2015-12-22 Riemann Hilbert problems are fundamental objects of study within complex analysis Many problems in differential equations and integrable systems probability and random matrix theory and asymptotic analysis can be solved by reformulation as a Riemann Hilbert problem This book the most comprehensive one to date on the applied and computational theory of Riemann Hilbert problems includes an introduction to computational complex analysis an introduction to the applied theory of Riemann Hilbert problems from an analytical and numerical perspective and a discussion of applications to integrable systems differential equations and special function theory It also includes six fundamental examples and five more sophisticated examples of the analytical and numerical Riemann Hilbert method each of mathematical or physical significance or both   **Aircraft Control Allocation** Wayne Durham,Kenneth A. Bordignon,Roger Beck,2017-01-17 Aircraft Control Allocation Wayne Durham Virginia Polytechnic Institute and State University USA Kenneth A Bordignon Embry Riddle Aeronautical University USA Roger Beck Dynamic Concepts Inc USA An authoritative work on aircraft control allocation by its pioneers Aircraft Control Allocation addresses the problem of allocating supposed redundant flight controls It provides introductory material on flight dynamics and control to provide the context and then describes in detail the geometry of the problem The book includes a large section on solution methods including Banks method a previously unpublished procedure Generalized inverses are also discussed at length There is an introductory section on linear programming solutions as well as an extensive and comprehensive appendix dedicated to linear programming formulations and solutions Discrete time or frame wise allocation is presented including rate limiting nonlinear data and preferred solutions Key features Written by pioneers in the field of control allocation Comprehensive explanation and discussion of the major control allocation solution methods Extensive treatment of linear programming solutions to control allocation A companion web site contains the code of a MATLAB Simulink flight simulation with modules that incorporate all of the major solution methods Includes examples based on actual aircraft The book is a vital reference for researchers and practitioners working in aircraft control as well as graduate students in aerospace engineering   *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards,1967   **Praxis Core Academic Skills for Educators (5713, 5723, 5733) Book + Online, 3rd Ed.** Sandra Rush,Julie O'Connell,2021-10-27 Whether you re pursuing a traditional education degree or changing careers this test prep has everything you nede to score high on all three Praxis Core substests Reading 5713 Writing 5723 and Mathematics 5733   **Basic Mathematics for Engineers (8th Ed.)** Stephen Fenner,2013-04-06 This book provides a

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