

## Lesson 1.5 – Inverse Relations

### **Learning Goals**

By the end of the lesson, I can:

- Explain the meaning of the concept of an inverse
- Determine the equation, graph, table of values, domain and range of an inverse  $f^{-1}(x)$  from  $f(x)$
- Restrict the domain of a function so that its inverse is also a function

### Recall: Inverses – The Ctrl – Z (or Command – Z) of Mathematics

The inverse of a function is a relation that “undoes” the function. If a function maps an input,  $x$ , to an output,  $y$ , the inverse of the function will map  $y$  back to  $x$ . The inverse of a function,  $f(x)$  is often notated as  $f^{-1}(x)$

Below is an example of a function and its inverse in mapping notation:



### Inverses – Points

If a function includes a point,  $(a, b)$ , its inverse will include the point  $(b, a)$

Example 1: A function,  $f$ , includes the following points:  $(-3,9), (-2,4), (-1,1), (0,0), (1,1), (2,4), (3,9)$

- Which points can you conclude are on  $f^{-1}$ ?
- Is  $f^{-1}$  a function? Explain

# Lesson 4 3 Inverses Of Relations And Functions

**Barbara A. Poole**



## Lesson 4 3 Inverses Of Relations And Functions:

**Advanced Mathematical Concepts Transparency Sampler 2001** McGraw-Hill Staff,2001      Essential Mathematical Methods CAS 3 and 4 Enhanced TIN/CP Version Michael Evans,Kay Lipson,Peter Jones,Sue Avery,2011-05 The Essential VCE Mathematics series has a reputation for mathematical excellence with an approach developed over many years by a highly regarded author team of practising teachers and mathematicians This approach encourages understanding through a wealth of examples and exercises with an emphasis on VCE examination style questions New in the enhanced versions TI Nspire OS3 and Casio ClassPad calculator explanations examples and problems are integrated into the text Page numbers in the printed text reflect the previous TI nspire and Casio ClassPad version allowing for continuity and compatibility Digital versions of the student text are available in Interactive HTML and PDF formats through Cambridge GO      A First Course in Mathematical Logic and Set Theory Michael L. O'Leary,2015-09-08 A mathematical introduction to the theory and applications of logic and set theory with an emphasis on writing proofs Highlighting the applications and notations of basic mathematical concepts within the framework of logic and set theory A First Course in Mathematical Logic and Set Theory introduces how logic is used to prepare and structure proofs and solve more complex problems The book begins with propositional logic including two column proofs and truth table applications followed by first order logic which provides the structure for writing mathematical proofs Set theory is then introduced and serves as the basis for defining relations functions numbers mathematical induction ordinals and cardinals The book concludes with a primer on basic model theory with applications to abstract algebra A First Course in Mathematical Logic and Set Theory also includes Section exercises designed to show the interactions between topics and reinforce the presented ideas and concepts Numerous examples that illustrate theorems and employ basic concepts such as Euclid's lemma the Fibonacci sequence and unique factorization Coverage of important theorems including the well ordering theorem completeness theorem compactness theorem as well as the theorems of Löwenheim Skolem Burali Forti Hartogs Cantor Schröder Bernstein and König An excellent textbook for students studying the foundations of mathematics and mathematical proofs A First Course in Mathematical Logic and Set Theory is also appropriate for readers preparing for careers in mathematics education or computer science In addition the book is ideal for introductory courses on mathematical logic and or set theory and appropriate for upper undergraduate transition courses with rigorous mathematical reasoning involving algebra number theory or analysis      Prentice Hall Algebra 2 Prentice Hall (School Division),2002-09      **Trigonometry** Jerome D. Hayden,1992-09 This course is designed to extend your fundamental mathematical skills so that you may enjoy topics in other advanced mathematical and scientific disciplines      **Plane Trigonometry** Roy David Gustafson,Peter D. Frisk,1984      Intermediate Algebra Denny Burzynski,Wade Ellis,1989      Algebra and Trigonometry Marvin A. Bittinger,Judith A. Beecher,David J. Ellenbogen,Judith A. Penna,2006 With a visual graphical approach that emphasizes connections among concepts this text helps students make the

most of their study time The authors show how different mathematical ideas are tied together through their zeros solutions and x intercepts theme side by side algebraic and graphical solutions calculator screens and examples and exercises By continually reinforcing the connections among various mathematical concepts as well as different solution methods the authors lead students to the ultimate goal of mastery and success in class

*Analytic Geometry* Murray H. Protter, Charles Bradfield Morrey, 1966

*LSC Trigonometry: Revised Third Edition* John D. Baley, Gary Sarell, John Baley, 2002-06-26 This text is designed for an in depth course in trigonometry Although the development of trigonometry begins on page one the authors realize that many students may have completed algebra and geometry courses some time ago Therefore they have included algebra and geometry reminders throughout the text where they know from their teaching experience that many students need help in recalling ideas that are necessary to develop trigonometry While it assumes no previous knowledge of trigonometry this book shows how trigonometry can be used in many fields It also develops algebra skills so that students will be thoroughly prepared to continue their study of mathematics and science The use of graphing calculators has been incorporated throughout the text to reduce the labor of calculations and to expand the students understanding of concepts and give students the opportunity to explore relationships A Student Solutions Manual is available for sale Additionally an Instructor Solutions Manual is available for teachers by emailing [shirley\\_grall@mcgraw-hill.com](mailto:shirley_grall@mcgraw-hill.com)

Prentice Hall Algebra 2 with Trigonometry Bettye C. Hall, 1990

**Basic Mathematics for Calculus** Dennis G. Zill, 1988

*Intermediate Algebra* Barbara A. Poole, 1994 This second edition is intended for intermediate algebra courses and developmental mathematics with an elementary algebra prerequisite The inclusion of historical notes study units margin exercises pre tests calculator problems challenge problems end of chapter summaries and cooperative learning exercises should be of interest to students in the broader culture of mathematics and algebra

**Algebra and Trigonometry** John W. Coburn, 2010 Three components contribute to a theme sustained throughout the Coburn Series that of laying a firm foundation building a solid framework and providing strong connections Not only does Coburn present a sound problem solving process to teach students to recognize a problem organize a procedure and formulate a solution the text encourages students to see beyond procedures in an effort to gain a greater understanding of the big ideas behind mathematical concepts

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*An Introduction to General Topology* Paul E. Long, 1971

**Experiencing Algebra** JoAnne Thomasson, Bob Pesut, 1998-08 Experiencing Algebra combines beginning and intermediate algebra concepts and actively involves readers in a total algebra experience Thomasson and Pesut integrate the use of technology assuming no prior graphing calculator skills on the part of readers allow readers to experience algebra through discovery and visualization illustrate multiple approaches numerical graphical algebraic and verbal to problem solving Rational Numbers Real Numbers Variables Expressions Equations and Formulas Relations Functions and Graphs Linear Equations in One Variable Linear Equations and Functions in Two Variables Systems of Linear Equations in Two Variables Inequalities Polynomial Functions Working with Polynomial

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