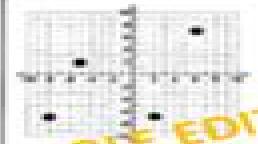
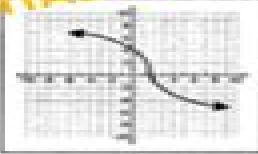
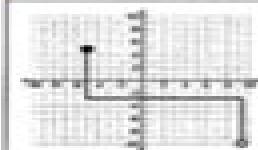
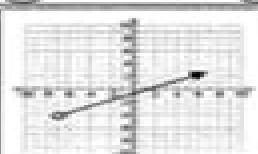


# Key Domain and Range Practice

Identify the domain and the range for each:

Mapping, Table, Graph, Relation	Domain	Range
1) $\{(-9, 1), (-6, 6), (3, 10), (-6, 14)\}$	$\{-9, -6, 3\}$	$\{1, 6, 10, 14\}$
2)  <p>Mapping diagram showing a function from a domain of <math>\{-8, -5, 2\}</math> to a range of <math>\{6, 7, -2, -7\}</math>. The mapping is as follows: <math>-8 \rightarrow 6</math>, <math>-5 \rightarrow 7</math>, <math>2 \rightarrow -2</math>.</p>	$\{-8, -5, 2\}$	$\{6, 7, -2, -7\}$
3)  <p>Graph of a line with a hole at <math>(0, 0)</math> passing through <math>(-1, 1)</math> and <math>(1, -1)</math>. The equation of the line is <math>y = x</math>.</p>	$\{x   x \neq 0\}$	$\{y   y \neq 0\}$
4)  <p>Table showing a function from <math>x</math> to <math>y</math> with values <math>\{-9, -8, -5, 4, 8\}</math>.</p>	$\{-8, -5, 4, 8\}$	$\{-9, -8, -6\}$
5)  <p>Graph of a line segment on the <math>x</math>-axis from <math>-5</math> to <math>9</math>. The equation of the line is <math>x = 5</math>.</p>	$\{-5 \leq x \leq 9\}$	$\{y = 5\}$
6)  <p>Diagram of a function mapping from a domain of <math>\{-8, 0\}</math> to a range of <math>\{1, 3, -5\}</math>. The mapping is as follows: <math>-8 \rightarrow 1</math>, <math>0 \rightarrow 3</math>, <math>0 \rightarrow -5</math>.</p>	$\{-8, 0\}$	$\{1, 3, -5\}$
7)  <p>Graph of a line with a hole at <math>(-7, 0)</math> passing through <math>(-8, -4)</math> and <math>(-6, 2)</math>. The equation of the line is <math>y = x + 7</math>.</p>	$\{x   x > -7\}$	$\{y   y > -4\}$

# Algebra Domain Range Problems

**Raymond Barnett, Michael Ziegler, Karl  
Byleen, David Sobecki**

## **Algebra Domain Range Problems:**

GEOPAths—Broadening the Voices in Geosciences James H. MacDonald Jr., Renee M. Clary, Reginald S. Archer, Ruby L. Broadway, 2025-12-19    **Algebra** William G. McCallum, Eric Connally, Deborah Hughes-Hallett, 2014-11-25 Algebra Form and Function was designed based on the fundamental goal for a student to foster understanding of algebraic structure that is an understanding of how the arrangements of symbols allows us to predict for example the behavior of a function or the number of solutions to an equation Mastering algebraic structure enables students to read algebraic expressions and equations in real life contexts not just manipulate them and to choose which form or which operation will best suit the context It facilitates being able to translate back and forth between symbolic graphical numerical and verbal representations By balancing practice in manipulation and opportunities to see the big picture Algebra Form and Function offers a way for teachers to help students achieve real mastery of algebra    **EBOOK: College Algebra with Trigonometry** Raymond Barnett, Michael Ziegler, Karl Byleen, David Sobecki, 2010-03-16 Barnett Ziegler Byleen and Sobecki's College Algebra with Trigonometry text is designed to be user friendly and to maximize student comprehension by emphasizing computational skills ideas and problem solving as opposed to mathematical theory The large number of pedagogical devices employed in this text will guide a student through the course Integrated throughout the text students and instructors will find Explore Discuss boxes which encourage students to think critically about mathematical concepts In each section the worked examples are followed by matched problems that reinforce the concept being taught In addition the text contains an abundance of exercises and applications that will convince students that math is useful A MathZone site featuring algorithmic exercises videos and other resources accompanies the text    **College Algebra with Graphing and Problem Solving** Karl J. Smith, 1996    *Relational and Algebraic Methods in Computer Science* Jules Desharnais, Walter Guttmann, Stef Joosten, 2018-10-22 This book constitutes the proceedings of the 17th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2018 held in Groningen The Netherlands in October November 2018 The 21 full papers and 1 invited paper presented together with 2 invited abstracts and 1 abstract of a tutorial were carefully selected from 31 submissions The papers are organized in the following topics Theoretical foundations reasoning about computations and programs and applications and tools    *Relational and Algebraic Methods in Computer Science* Uli Fahrenberg, Mai Gehrke, Luigi Santocanale, Michael Winter, 2021-10-22 This book constitutes the proceedings of the 19th International Conference on Relational and Algebraic Methods in Computer Science RAMiCS 2021 which took place in Marseille France during November 2-5 2021 The 29 papers presented in this book were carefully reviewed and selected from 35 submissions They deal with the development and dissemination of relation algebras Kleene algebras and similar algebraic formalisms Topics covered range from mathematical foundations to applications as conceptual and methodological tools in computer science and beyond    **Math Starters** Judith A. Muschla, Gary R. Muschla, Erin Muschla, 2013-08-22 A revised

edition of the bestselling activities guide for math teachers. Now updated with new math activities for computers and mobile devices and now organized by the Common Core State Standards this book includes more than 650 ready to use math starter activities that get kids quickly focused and working as soon as they enter the classroom. Ideally suited for any math curriculum these high interest problems spark involvement in the day's lesson help students build skills and allow teachers to handle daily management tasks without wasting valuable instructional time. A newly updated edition of a bestselling title. Ideal for math teachers in grades six through twelve. Includes more than 650 ready to use starter problems.

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**College Algebra** Raymond A. Barnett,Michael R. Ziegler,Karl E. Byleen,2000 Mathematical reform is the driving force behind the organization and development of this new college algebra text The use of technology primarily graphing utilities is assumed throughout the text The development of each topic proceeds from the concrete to the abstract and takes full advantage of technology wherever appropriate The first major objective of this book is to encourage students to investigate mathematical ideas and processes graphically and numerically as well as algebraically Proceeding in this way students gain a broader deeper and more useful understanding of a concept or process Even though concept development and technology are emphasized manipulative skills are not ignored and plenty of opportunities to practice basic skills are present A brief look at the table of contents will reveal the importance of the function concept as a unifying theme The second major objective of this book is the development of a library of elementary functions includingtheir important properties and uses Having this library of elementary functions as a basic working tool in their mathematical tool boxes students will be able to move into calculus with greater confidence and understanding In addition a concise review of basic algebraic concepts is included in Appendix A for easy reference or

systematic review The third major objective of this book is to give the student substantial experience in solving and modeling real world problems Enough applications are included to convince even the most skeptical student that mathematics is really useful Most of the applications are simplified versions of actual real world problems taken from professional journals and professional books No specialized experience is required to solve any of the applications     *Foundations of Algebra* Joe J. Lancaster,1965

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