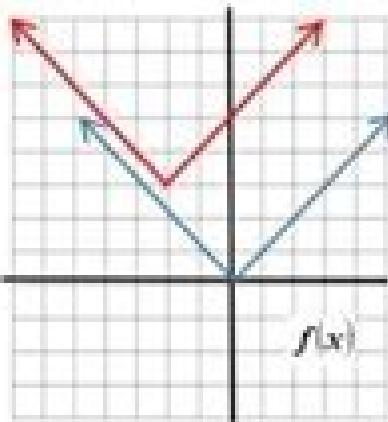


# Transformations of Absolute Value Function

Practice: 1-4 Graph from the written description and write the function below.

$$f(x) = |x + h| + k$$

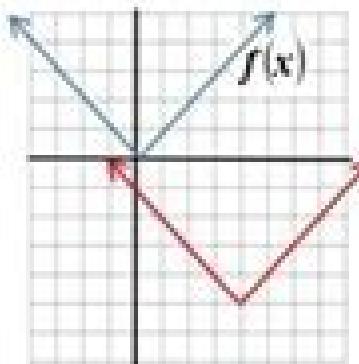
1. Graph  
Horizontal shift left 2  
& Vertical shift Up 2



Write the function:  
 $f(x) = |x + 2| + 3$

$$f(x) = |x - h| - k$$

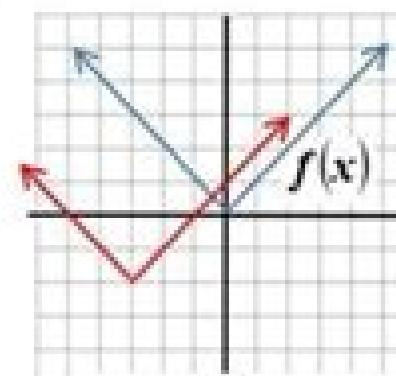
2. Graph  
Horizontal shift right 4  
& Vertical shift down 5



Write the function:  
 $f(x) = |x - 4| - 5$

$$f(x) = |x + h| - k$$

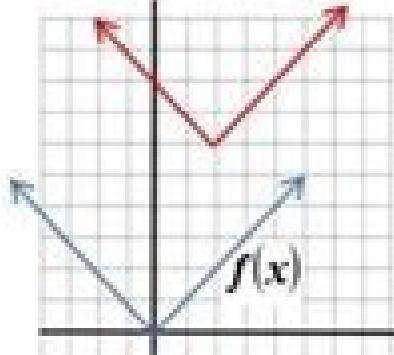
3. Graph  
Horizontal shift left 3  
& Vertical shift down 2



Write the function:  
 $f(x) = |x + 3| - 2$

$$f(x) = |x - h| + k$$

4. Graph  
Horizontal shift right 2  
& Vertical shift up 6

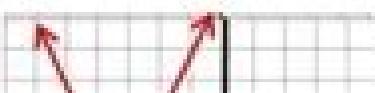


Write the function:  
 $f(x) = |x - 2| + 6$

$$f(x) = a|x + h| + k$$

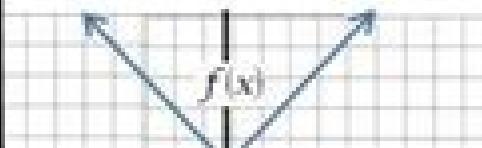
$$|a| > 1$$

Vertical compression by a factor of 1/2, horizontal shift left 3, vertical shift up 4



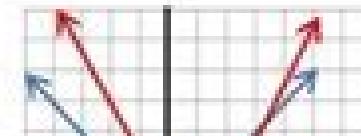
$$f(x) = |ax - h| - k$$

Vertical stretch by a factor of 1/3, horizontal shift right 3, vertical shift down 5



$$f(x) = |ax - h| - k$$

Horizontal compression by a factor of 2, horizontal shift right 2 units, vertical shift down 1 unit.



$$f(x) = -a|x + h| + k$$

Reflection over the x-axis, vertical stretch by a factor of 2, horizontal shift left 3 units, vertical shift up 4 units.



# Algebra 2 Exploring Transformations

**Edm,University of Chicago. School  
Mathematics Project**

## Algebra 2 Exploring Transformations:

**Mathematics Unit Planning in a PLC at Work®, High School** Sarah Schuhl, Timothy D. Kanold, Bill Barnes, Darshan M. Jain, Matthew R. Larson, Brittany Mozingo, 2020-12-31 Champion student mastery of essential mathematics content in grades 9-12 Part of the Every Student Can Learn Mathematics series this guidebook provides high school teachers with a framework for collectively planning units of study in a professional learning community PLC. The authors share tools and protocols for unwrapping standards generating unit calendars developing rigorous lessons and many other essential team actions. Use this resource to discover practical insight into collaborative planning and inspiring detailed models of unit planning in action. Understand how to collaboratively plan units for high school mathematics. Study the seven unit planning elements and learn how to incorporate each in unit designs. Review the role of the PLC at Work process in enhancing student learning and teacher collaboration. Observe model units for Algebra 1 geometry and Algebra 2. Receive tools and templates for effective unit planning. Contents: Introduction by Timothy D. Kanold, Part 1 Mathematics Unit Planning and Design Elements, Chapter 1 Planning for Student Learning of Mathematics in High School, Chapter 2 Unit Planning as a Collaborative Mathematics Team, Part 2 Transformations on the Coordinate Plane, Unit Examples for Algebra 1 Geometry and Algebra 2, Chapter 3 Algebra 1 Unit Graphs of Quadratic Functions, Chapter 4 Geometry Unit Transformations and Congruence, Chapter 5 Algebra 2 Unit Graphs of Trigonometric Functions, Epilogue, Mathematics Team Operations, Appendix A Create a Proficiency Map, Appendix B Checklist and Questions for Mathematics Unit Planning.

*Fostering Children's Mathematical Power*  
Arthur Baroody, Arthur J. Baroody, Jesse L.M. Wilkins, Ronald T. Coslick, 1998-09-01 Teachers have the responsibility of helping all of their students construct the disposition and knowledge needed to live successfully in a complex and rapidly changing world. To meet the challenges of the 21st century students will especially need mathematical power a positive disposition toward mathematics curiosity and self confidence facility with the processes of mathematical inquiry problem solving reasoning and communicating and well connected mathematical knowledge an understanding of mathematical concepts procedures and formulas. This guide seeks to help teachers achieve the capability to foster children's mathematical power the ability to excite them about mathematics help them see that it makes sense and enable them to harness its might for solving everyday and extraordinary problems. The investigative approach attempts to foster mathematical power by making mathematics instruction process based understandable or relevant to the everyday life of students. Past efforts to reform mathematics instruction have focused on only one or two of these aims whereas the investigative approach accomplishes all three. By teaching content in a purposeful context an inquiry based fashion and a meaningful manner this approach promotes children's mathematical learning in an interesting thought provoking and comprehensible way. This teaching guide is designed to help teachers appreciate the need for the investigative approach and to provide practical advice on how to make this approach happen in the classroom. It not only dispenses information but also serves as a catalyst.

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transformations Describes how geometric objects or things represented as such when subjected to mathematical operations called geometric transformations may change position orientation or shape even though the properties that characterize their geometric identity and integrity remain unchanged or invariant **Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 5** University of Chicago. School Mathematics Project, 2007 The Teacher's Lesson Guide provides easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and assessment tips and multilevel differentiation strategies for all learners This English Spanish Edition provides dual language support

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### **Table of Contents Algebra 2 Exploring Transformations**

1. Understanding the eBook Algebra 2 Exploring Transformations
  - The Rise of Digital Reading Algebra 2 Exploring Transformations
  - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 Exploring Transformations
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Algebra 2 Exploring Transformations
  - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 Exploring Transformations
  - Personalized Recommendations
  - Algebra 2 Exploring Transformations User Reviews and Ratings
  - Algebra 2 Exploring Transformations and Bestseller Lists

5. Accessing Algebra 2 Exploring Transformations Free and Paid eBooks
  - Algebra 2 Exploring Transformations Public Domain eBooks
  - Algebra 2 Exploring Transformations eBook Subscription Services
  - Algebra 2 Exploring Transformations Budget-Friendly Options
6. Navigating Algebra 2 Exploring Transformations eBook Formats
  - ePUB, PDF, MOBI, and More
  - Algebra 2 Exploring Transformations Compatibility with Devices
  - Algebra 2 Exploring Transformations Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Algebra 2 Exploring Transformations
  - Highlighting and Note-Taking Algebra 2 Exploring Transformations
  - Interactive Elements Algebra 2 Exploring Transformations
8. Staying Engaged with Algebra 2 Exploring Transformations
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Algebra 2 Exploring Transformations
9. Balancing eBooks and Physical Books Algebra 2 Exploring Transformations
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Algebra 2 Exploring Transformations
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Algebra 2 Exploring Transformations
  - Setting Reading Goals Algebra 2 Exploring Transformations
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra 2 Exploring Transformations
  - Fact-Checking eBook Content of Algebra 2 Exploring Transformations
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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