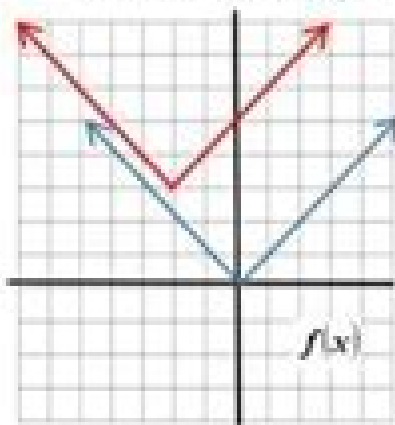


# Transformations of Absolute Value Function

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

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

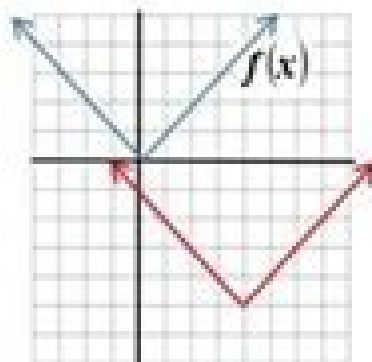
1. Graph  
Horizontal shift left 2  
& Vertical shift Up 2



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

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

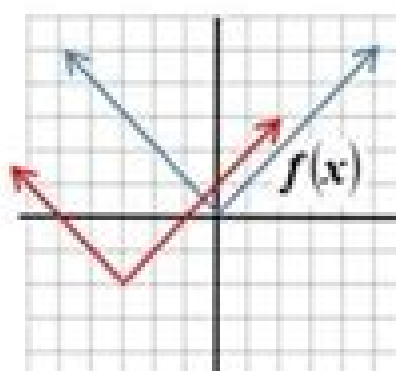
2. Graph  
Horizontal shift right 4  
& Vertical shift down 5



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

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

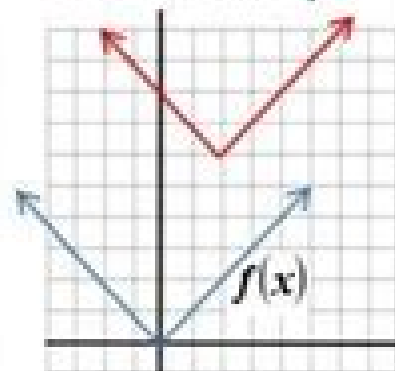
3. Graph  
Horizontal shift left 3  
& Vertical shift down 2



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

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

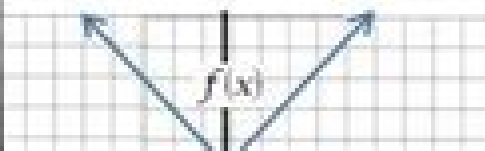
$$|a| > 1$$

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



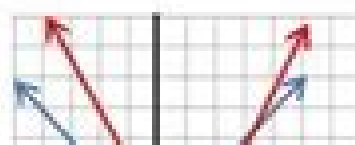
$$f(x) = |ax - h| - k$$

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 Mazingo, 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

for exploring conjecturing about discussing and contemplating the teaching and learning of mathematics *Crack the SAT Math Code: Proven Techniques and Exercises* Dr. Summiya Parveen, Dr. Aruna tomar, 2024-04-26 Unlock SAT Math Success Master the Code with Confidence The difference between ordinary and extraordinary is that little extra Jimmy Johnson Unleash your extraordinary potential by cracking the code to SAT Math success Master proven techniques through targeted practice and clear explanations This comprehensive guide equips you with the tools and confidence to conquer every math challenge and unlock your full potential on the SAT Don't settle for ordinary crack the code and take charge of your future

**Math Expressions: Student activity book, vol. 1**, 2006 **Teaching and Learning Geometry** Doug French, 2004-12-23 This fascinating title reviews the teaching and learning of school geometry from the perspective of both the new teacher and the more experienced teacher It is designed to extend and deepen subject knowledge and to offer practical advice and ideas for the classroom in the context of current practice and research Particular emphasis is given to the following elements understanding the key ideas of the geometry curriculum learning geometry effectively lessons from research and current practice misconceptions and errors the role of technology in learning geometry **Advanced Algebra** Holt, Rinehart and Winston Staff, 1997 HRW Algebra One Interactions, 1998 Chapter Teaching Resource Holt, Rinehart and Winston Staff, 1997 *Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 4* Edm, University of Chicago. School Mathematics Project, 2008 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 *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 **Mathematics Catalog 2005** Neil Thomson, 2004-10 **Integrated Mathematics** Holt McDougal, 1998 **Mathematics**, 1995 HRW Algebra, 1997\* *Algebra* Holt, Rinehart and Winston Staff, 1997 Geometry Ron Larson, 1995 **Everyday Mathematics: Teacher's lesson guide v. 1] [v.3] Teacher's lesson guide v. 2**, 2004 Everyday Mathematics Max Bell, 2004 Contains easy to follow three part daily lesson plans This assists teachers in focusing on lesson objectives providing ongoing practice for all students and addressing individual student needs for a variety of populations A unit organizer provides learning goals planning and assessment support content highlights a materials chart suggestions for problem solving cross curricular links and options for individualizing Each guide is grade level specific **Geometric Transformations** Michael E. Mortenson, 1995 Gives the reader a full understanding of transformation theory the role of invariants the uses of various notation systems and the relationships between

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

## Unveiling the Magic of Words: A Review of "**Algebra 2 Exploring Transformations**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Algebra 2 Exploring Transformations**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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