



## 1-1

## Exploring Transformations

Stretches and compressions are not congruent to the original graph.

## Stretches and Compressions

	Horizontal	Vertical
Stretch	<p>Each point is pulled away from the <math>y</math>-axis.</p> <p>The <math>x</math>-coordinate changes:  <math>(x, y) \rightarrow (bx, y)</math>  <math>(x, y) \rightarrow (bx, y)</math>  <math> b  &gt; 1</math></p>	<p>Each point is pulled away from the <math>x</math>-axis.</p> <p>The <math>y</math>-coordinate changes:  <math>(x, y) \rightarrow (x, 2y)</math>  <math>(x, y) \rightarrow (x, 4y)</math>  <math> a  &gt; 1</math></p>
Compression	<p>Each point is pulled toward the <math>y</math>-axis.</p> <p>The <math>x</math>-coordinate changes:  <math>(x, y) \rightarrow \left(\frac{1}{b}(x, y)\right)</math>  <math>(x, y) \rightarrow (bx, y)</math>  <math>0 &lt;  b  &lt; 1</math></p>	<p>Each point is pulled toward the <math>x</math>-axis.</p> <p>The <math>y</math>-coordinate changes:  <math>(x, y) \rightarrow (x, \frac{1}{a}y)</math>  <math>(x, y) \rightarrow (x, ay)</math>  <math>0 &lt;  a  &lt; 1</math></p>

# Algebra 2 Exploring Transformations

**Vincent Barnett**

## **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 for exploring, conjecturing about,

discussing and contemplating the teaching and learning of mathematics      **HRW Algebra One Interactions** ,1998  
    Modeling With Mathematics COMAP,Gary Cosenza,Region IV Ed Service Ctr,2006-02-28 Designed for juniors and seniors in high school who have not succeeded using traditional approaches to teaching mathematics but want to prepare for Algebra II or a College Algebra course Publisher      **Advanced Algebra** Holt, Rinehart and Winston Staff,1997      *Chapter Teaching Resource* Holt, Rinehart and Winston Staff,1997      **Teaching and Learning Geometry** Doug French,2004-12-01 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 Geometry reasoning problem solving and proving The role of technology in learning geometry      *The National Curriculum Handbook for Secondary Teachers in England* ,2005-09-30 The National Curriculum handbooks are the official National Curriculum documents for secondary and primary schools They are the revised blue print for what every child will be required to learn in school from 2004      **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      Integrated Mathematics Holt McDougal,1998      **HRW Algebra** ,1997\*      **Geometry** Ron Larson,1995      *Algebra* Holt, Rinehart and Winston Staff,1997      **Britannica Mathematics in Context** ,1997      **Exploring Precalculus with Derive** Elizabeth Hodes,Michael Mallen,M. Paige Yuhn,1994 This laboratory manual is designed for college algebra or precalculus courses that use DERIVE graphing software Each lab exercise is designed to lead students to mathematical insights by encouraging structured exploration Designed in an easy to use workbook format all explorations are self contained on pages with space for answers and are perforated so they can be torn out and handed in to the instructor The manual also supports NCTM guidelines      **Course Integration Guide to Accompany College Algebra with Trigonometry** Vincent Barnett,2000-12  
    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      Stanford Exploration Project ,1974      *Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 5* University of Chicago. School Mathematics Project,2007 The Teacher s Lesson

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