

Transformations of Quadratic Functions

How do the constants a , h , and k affect the graph of the quadratic function: $f(x) = a(x - h)^2 + k$

$$f(x) = \pm a(x - h)^2 + k$$

Constant	Examples (Graph them...)	Visual Representation	Describe what changed...
k	$f(x) = x^2$ $g(x) = x^2 + 3$ $h(x) = x^2 - 5$ $j(x) = x^2 + 2$ $k(x) = x^2 + 4$		Changing the value of k shifts the graph <u>up</u> or <u>down</u> . If k is positive the graph shifts <u>up</u> . If k is negative the graph shifts <u>down</u> .
h	$f(x) = x^2$ $g(x) = (x - 3)^2$ $h(x) = (x + 4)^2$ $j(x) = (x - 2)^2$ $k(x) = (x + 1)^2$		Changing the value of h shifts the graph <u>left</u> or <u>right</u> . If h is positive the graph shifts <u>left</u> . If h is negative the graph shifts <u>right</u> .

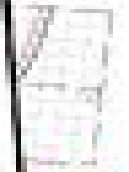
Transformations of Quadratic Functions



2 units up



Translated 3 units down



2 units right



Translated 4 units left



3 units left



TRANSFORMATIONS OF QUADRATIC FUNCTIONS

Guided Notes & Worksheet

a	$f(x) = x^2$ $g(x) = -x^2$		<u>reflected (flipped)</u> the graph over the <u>x-axis</u> .
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stretch/compress
by a scale factor of $|a|$
and translated down k units

Translated 3 units left,
3 units up, then reflected
over the x -axis

Transformations With Quadratic Functions Key Pg 4 Of 5

Michael Sullivan



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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. Precalculus
Cynthia Y. Young, 2010-01-19
Engineers looking for an accessible approach to calculus will appreciate Young's introduction. The book offers a clear writing style that helps reduce any math anxiety they may have while developing their problem solving skills. It incorporates Parallel Words and Math boxes that provide detailed annotations which follow a multi-modal approach. Your Turn exercises reinforce concepts by allowing them to see the connection between the exercises and examples. A five-step problem solving method is also used to help engineers gain a stronger understanding of word problems.
College Algebra Cynthia Y. Young, 2012-10-02
This is the Student Solutions Manual to accompany College Algebra 3rd Edition. The 3rd edition of Cynthia Young's College Algebra brings together all the elements that have allowed instructors and learners to successfully bridge the gap between classroom instruction and independent homework by overcoming common learning barriers and building confidence in students' ability to do mathematics. Written in a clear voice that speaks to students and mirrors how instructors communicate in lecture, Young's hallmark pedagogy enables students to become independent, successful learners. *Prentice Hall New York Math: Math B*, 2001 New York Math: Math B, 2000
Jacaranda Maths Quest 11 Mathematical Methods VCE Units 1 and 2 3e learnON and Print Sue Michell, Beverly Langsford Willing, 2022-11-21
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General Units 1 2 for when students switch courses The possibilities are endless **Jacaranda Maths Quest 10 + 10A Victorian Curriculum, 3e learnON and Print** Catherine Smith, Beverly Langsford Willing, Mark Barnes, Christine Utber, 2024-08-19 Jacaranda Maths Quest 10 10A for Victorian Curriculum v2 0 Victoria's most supportive Maths resource Developed by expert teachers every lesson is carefully designed to support learning online offline in class and at home Supporting students Whether students need a challenge or a helping hand they have the tools to help them take the next step in class and at home concepts brought to life with rich multi media easy navigation differentiated pathways immediate corrective feedback Worked solutions for every question personalised pathways that also allow for social learning opportunities for remediation extension acceleration tracking progress and growth Supporting teachers Teachers are empowered to teach their class their way with flexible resources perfect for teaching and learning 100's of ready made and customisable lessons comprehensive Syllabus coverage and planning documentation a variety of learning activities assessment for as and of learning marking tracking monitoring and reporting capabilities ability to add own materials Supporting schools Schools are set up for success with our unmatched customer service training and solutions tailored to you Learning Management System LMS integration online class set up dedicated customer specialists tools to manage classes bookseller app integration complimentary resources for teachers training and professional learning curriculum planning data insights flexible subscription services at unbeatable prices *Jacaranda Maths Quest 10 Australian Curriculum, 5e learnON and Print* Catherine Smith, Beverly Langsford Willing, Mark Barnes, Christine Utber, 2023-11-20 Developed by expert teachers every lesson is carefully designed to support learning online offline in class and at home **New York Math: Math A**, 2000

Public-Key Cryptography -- PKC 2014 Hugo Krawczyk, 2014-02-20 This book constitutes the refereed proceedings of the 17th International Conference on Practice and Theory in Public Key Cryptography PKC 2014 held in Buenos Aires Argentina in March 2014 The 38 papers presented were carefully reviewed and selected from 145 submissions The papers are organized in topical sections on chosen ciphertext security re encryption verifiable outsourcing cryptanalysis identity and attribute based encryption enhanced encryption signature schemes related key security functional authentication quantum impossibility privacy protocols A Transformation Method for Constrained-function Minimization Stephen Keith Park, 1975

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resources for making critical mathematics ideas easy to teach With this brand new volume high school mathematics success is at your fingertips Page by page the authors lay out the pieces of an in depth explanation including The mathematical progression of each conceptual category starting with modeling as a unifying theme and moving through number quantity algebra functions geometry and statistics and probability building from the 8th grade standards The mathematics embedded in each conceptual category for a deeper understanding of the content How standards connect within and across domains and to previous grade standards so teachers can better appreciate how they relate How standards connect with the standards for mathematical practice with a focus on modeling as a unifying theme Example tasks progressions of tasks and descriptions of what teachers and students should be doing to foster deep learning The Common Core Mathematics Companion The Standards Decoded High School has what every high school teacher needs to provide students with the foundation for the concepts and skills they will be expected to know **Your Mathematics Standards Companion, High**

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Sarah Schuhl, Mona Toncheff, Jennifer Deinhart, Brian Buckhalter, 2024-12-02 Discover how your collaborative team can ensure all students learn grade level mathematics during Tier 1 and Tier 2 instruction This valuable guide provides preK 12 teachers with ready to use tools and strategies to help students communicate using mathematical language and develop number sense conceptual understanding procedural fluency mathematical reasoning problem solving and more PreK 12 educators can use this book to Collaborate with teams to build a shared understanding of essential mathematics standards Ensure students learn grade level mathematics during Tier 1 and Tier 2 instruction Learn how to help students make connections to prior learning and why that matters Create opportunities for students to reason through problems with their

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Computational Methods for the Study of Dynamic Economies European Economic Association. Summer School, 1999-03-04 This volume brings together leading contributors in the field of macroeconomics who explain how to implement the computational techniques needed to solve dynamic economics models The contributors cover a broad range of techniques *Precalculus* Franklin D. Demana, 1997 *Advanced Encryption Standard - AES* Hans Dobbertin, Vincent Rijmen, Aleksandra Sowa, 2005-08-25 This volume comprises the proceedings of the 4th Conference on Advanced Encryption Standard AES State of the Crypto Analysis which was held in Bonn Germany during 10-12 May 2004 [Algebra & Trigonometry](#) Michael Sullivan, 2004 Intended for courses in College Algebra Algebra and Trigonometry Precalculus and Trigonometry which require student use of a graphing calculator

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