

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	$f(x) = x^2$ $g(x) = (x - 3)^2$ $h(x) = (x + 2)^2$ $j(x) = (x - 1)^2$ $k(x) = (x + 4)^2$		Changing the value of h shifts the graph <u>left</u> or <u>right</u> . If h is positive the graph shifts <u>right</u> . If h is negative the graph shifts <u>left</u> .

Transformations of Quadratic Functions



2 units up



Translated 3 units down



2 units right



Translated 3 units left



2 units left



Translated 3 units right



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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k	$f(x) = x^2 + 3$		Translated 3 units up
h	$f(x) = (x - 3)^2$		Translated 3 units right

Transformations With Quadratic Functions Pp 4 Of 5

**Sue Chandler,Ewart Smith,Laurence
Bishop,Ava Mothersill,Karyl Chan-Tack**

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Table of Contents Transformations With Quadratic Functions Pp 4 Of 5

1. Understanding the eBook Transformations With Quadratic Functions Pp 4 Of 5
 - The Rise of Digital Reading Transformations With Quadratic Functions Pp 4 Of 5
 - Advantages of eBooks Over Traditional Books
2. Identifying Transformations With Quadratic Functions Pp 4 Of 5
 - 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 Transformations With Quadratic Functions Pp 4 Of 5
 - User-Friendly Interface
4. Exploring eBook Recommendations from Transformations With Quadratic Functions Pp 4 Of 5
 - Personalized Recommendations
 - Transformations With Quadratic Functions Pp 4 Of 5 User Reviews and Ratings
 - Transformations With Quadratic Functions Pp 4 Of 5 and Bestseller Lists
5. Accessing Transformations With Quadratic Functions Pp 4 Of 5 Free and Paid eBooks
 - Transformations With Quadratic Functions Pp 4 Of 5 Public Domain eBooks
 - Transformations With Quadratic Functions Pp 4 Of 5 eBook Subscription Services
 - Transformations With Quadratic Functions Pp 4 Of 5 Budget-Friendly Options

6. Navigating Transformations With Quadratic Functions Pp 4 Of 5 eBook Formats
 - ePub, PDF, MOBI, and More
 - Transformations With Quadratic Functions Pp 4 Of 5 Compatibility with Devices
 - Transformations With Quadratic Functions Pp 4 Of 5 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Transformations With Quadratic Functions Pp 4 Of 5
 - Highlighting and Note-Taking Transformations With Quadratic Functions Pp 4 Of 5
 - Interactive Elements Transformations With Quadratic Functions Pp 4 Of 5
8. Staying Engaged with Transformations With Quadratic Functions Pp 4 Of 5
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Transformations With Quadratic Functions Pp 4 Of 5
9. Balancing eBooks and Physical Books Transformations With Quadratic Functions Pp 4 Of 5
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Transformations With Quadratic Functions Pp 4 Of 5
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Transformations With Quadratic Functions Pp 4 Of 5
 - Setting Reading Goals Transformations With Quadratic Functions Pp 4 Of 5
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Transformations With Quadratic Functions Pp 4 Of 5
 - Fact-Checking eBook Content of Transformations With Quadratic Functions Pp 4 Of 5
 - 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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