

CONCEPTUAL UNDERSTANDING



EXAMPLE 1

Transform a Quadratic Function

How are transformations of the graph of $f(x) = x^2$ related to an equation representing another quadratic function?

Vertex form shows three different ways in which the graph of the function $f(x) = x^2$ may be transformed.

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

The value of a determines the direction the parabola opens and whether the graph is stretched or compressed.

The value of h determines the horizontal translation.

The value of k determines the vertical translation.

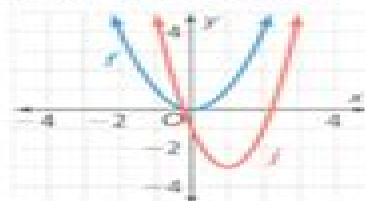
A. $g(x) = -\frac{1}{2}(x + 2)^2$

The equation shows that the graph is to be translated **2 units left**, will **open downward**, and will be **vertically compressed**.



B. $j(x) = 2(x - 1)^2 - 3$

The equation shows that the graph is to be translated **1 unit right**, **vertically stretched**, **down 3 units**. It will **open upward**.



When $a > 0$ the parabola opens upward. When $a < 0$, the parabola opens downward. When $|a| > 1$, the graph is stretched, and when $0 < |a| < 1$, the graph is compressed.



Try It!

1. Describe the transformations of the parent function $f(x) = x^2$. Then graph the function.

a. $g(x) = -(x + 2)^2$

b. $g(x) = (x - 1)^2 + 2$



EXAMPLE 2

Determine Key Features of a Quadratic Function

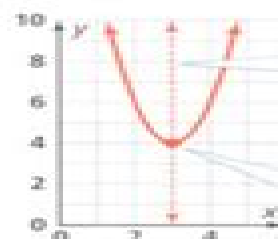
What are the key features of the quadratic function $f(x) = 2(x - 3)^2 + 4$?

The graph represents

$$f(x) = 2(x - 3)^2 + 4.$$

The **2** indicates that the graph opens upward and is vertically stretched.

The range is $y \geq 4$. There are no restrictions on the value of x , so the domain is all real numbers.



The axis of symmetry is the line $x = h$ or $x = 3$.

The vertex is the ordered pair (h, k) , or $(3, 4)$.

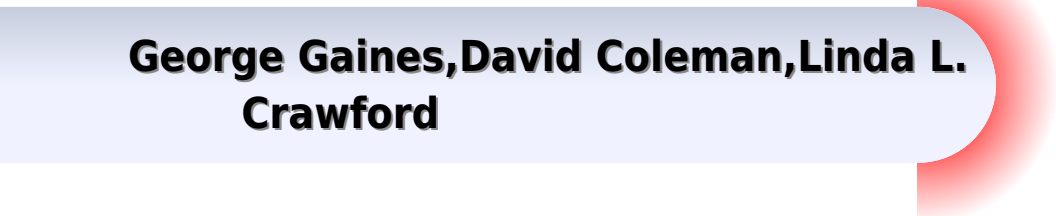


Try It!

2. Identify the vertex, axis of symmetry, minimum or maximum, domain, and range of the function $f(x) = -(x + 4)^2 - 5$.

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Crawford**



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Table of Contents Algebra Florida Workbook Answers Page 55

1. Understanding the eBook Algebra Florida Workbook Answers Page 55
 - The Rise of Digital Reading Algebra Florida Workbook Answers Page 55
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra Florida Workbook Answers Page 55
 - 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 Florida Workbook Answers Page 55
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra Florida Workbook Answers Page 55

- Personalized Recommendations
 - Algebra Florida Workbook Answers Page 55 User Reviews and Ratings
 - Algebra Florida Workbook Answers Page 55 and Bestseller Lists
5. Accessing Algebra Florida Workbook Answers Page 55 Free and Paid eBooks
- Algebra Florida Workbook Answers Page 55 Public Domain eBooks
 - Algebra Florida Workbook Answers Page 55 eBook Subscription Services
 - Algebra Florida Workbook Answers Page 55 Budget-Friendly Options
6. Navigating Algebra Florida Workbook Answers Page 55 eBook Formats
- ePub, PDF, MOBI, and More
 - Algebra Florida Workbook Answers Page 55 Compatibility with Devices
 - Algebra Florida Workbook Answers Page 55 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Algebra Florida Workbook Answers Page 55
 - Highlighting and Note-Taking Algebra Florida Workbook Answers Page 55
 - Interactive Elements Algebra Florida Workbook Answers Page 55
8. Staying Engaged with Algebra Florida Workbook Answers Page 55
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra Florida Workbook Answers Page 55
9. Balancing eBooks and Physical Books Algebra Florida Workbook Answers Page 55
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra Florida Workbook Answers Page 55
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra Florida Workbook Answers Page 55
- Setting Reading Goals Algebra Florida Workbook Answers Page 55
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra Florida Workbook Answers Page 55

- Fact-Checking eBook Content of Algebra Florida Workbook Answers Page 55
- 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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