

Transformations with Quadratic Functions

TRY THIS!

$$y = 2(x - 3)^2 + 4$$

Use a calculator to generate a table of values for the function

$$y = 2(x - 3)^2 + 4$$

x	y
1	
2	
3	
4	
5	
6	

Next, simplify the function by squaring, distributing, and collecting like terms.

$$y = 2(\quad) (\quad) + 4$$

Square (write twice)

$$y = 2(\quad + \quad + \quad + \quad) + 4$$

Multiply (FOIL)

$$y = 2(\quad + \quad + \quad) + 4$$

$$y = \quad + \quad + \quad + 4$$

Distribute

$$y =$$

Collect Like Terms

Would this expression generate the same table of values?

Use your calculator to make sure.

- These equations are both examples of _____ functions.

More importantly, these equations show the two special forms of these types of functions:

Form	Equation	Uses
Standard Form		Simplified form
Vertex Form		- Transformation of parent function - Sketch graphs - Determine equation from a graph

Transformation Effects: When a quadratic function is given in the vertex form, the parent function $y = x^2$ undergoes the following transformations.

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

a

The function reflects over the x -axis if a is negative.

The graph stretches or compresses by a factor of $|a|$.

- If $|a| > 1$, the graph stretches vertically.

$$0 < |a| < 1$$

- If $0 < |a| < 1$, the graph compresses vertically.

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A Gutmann



Hs Mathematics Algebra 2 Spring Board Parabola:

Decoding **Hs Mathematics Algebra 2 Spring Board Parabola**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Hs Mathematics Algebra 2 Spring Board Parabola**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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