# **Transformations with Quadratic Functions**

TRY THIS!

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

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

$$y = 2(x-3)^2 + 4$$
 $x$ 
 $y$ 
 $1$ 
 $2$ 
 $3$ 
 $4$ 
 $5$ 

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

Square (write twice) Multiply (FOIL)

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

<u>Transformation Effects</u>: When a quadratic function is given in the vertex  $y = x^2$  form, the parent function 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| > 1

- If , the graph stretches vertically. 0 < |a| < 1</li>
- If , the graph compresses vertically.

# **Hs Mathematics Algebra 2 Spring Board Parabola**

Jianjun Gao

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