

## 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		<ul style="list-style-type: none"> <li>Simplified form</li> </ul>
Vertex Form		<ul style="list-style-type: none"> <li>Transformation of parent function</li> <li>Sketch graphs</li> <li>Determine equation from a graph</li> </ul>

**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  $|a|$ .  
 $|a| > 1$

- If \_\_\_\_\_, the graph stretches vertically.

$$0 < |a| < 1$$

- If \_\_\_\_\_, the graph compresses vertically.

# Hs Mathematics Algebra 2 Spring Board Parabola

**Thirumalaisamy P.**  
**Velavancorresponding**



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Simple Solutions HS Mathematics Algebra II, SE Kimberly Dambrogio, 2010-09-01

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