

Honors Evaluating a Transformation

Identifying Translations of Quadratics Using Graphs

_____ involve shifting the graph of a function horizontally or vertically, while dilations involve stretching or compressing the graph.

Vertical Translations

If the function moves _____ or _____, then a constant was added to the output or y value, and it is a vertical translation. If the function moves upward, the value of k is _____. If the function moves downward, the value of k is _____.

Horizontal Translations

If the function moves to the _____ or the _____, then a constant was added to the input or x value, and it is a horizontal translation. If the function moves to the left, the value of k is _____. If the function moves to the right, the value of k is _____.

Practice: Complete the practice problem(s) in the space below. Be sure to check your work.

Identifying Dilations of Quadratics Using Graphs

Vertical Dilations

If the x -intercepts are the same, the axes of symmetry are the _____, the y -intercepts are _____, and the parabola appears to have a change in shape, as in narrower or wider, then a _____ dilation occurs.

Horizontal Dilations

If the y -intercepts are the same, the x -intercepts are _____, and the parabola appears to change shape, as in stretched or compressed along the _____, then a _____ dilation occurs.

Practice: Complete the practice problem(s) in the space below. Be sure to check your work.

Identifying Transformations of Quadratics Using Tables

A comparison of key features or other ordered pairs may be used to identify the transformation and calculate the value of ____.

Practice: Complete the practice problem(s) in the space below. Be sure to check your work.

Identifying Transformations of Quadratics Using Mixed Representations

Be sure to look for terms like _____ or _____, or for equations that represent the transformation in the problem.

Practice: Complete the practice problem(s) in the space below. Be sure to check your work.

Please use additional paper as needed to complete the Self-Check. You may also choose to print the lesson's Sum It Up page.