

ALGEBRA 2

Proficiency Scale: Parent Functions & Transformations

Essential Learning Target: I can use the transformations of parent functions to graph an absolute value, quadratic or square root function.

Scoring Guidelines

<p>SCORE 4.0</p>	<p>In addition to Score 3.0, in-depth inferences and applications that go beyond what was taught.</p> <ul style="list-style-type: none"> <input type="checkbox"/> I can graph a piecewise function that includes multiple different types of parent functions and state its domain and range. 																								
<p>SCORE 3.0</p>	<p>The student will:</p> <ul style="list-style-type: none"> <input type="checkbox"/> I can graph any absolute value, quadratic or square root function and state its key features. <input type="checkbox"/> I can convert a quadratic function to vertex form and state the vertex. <p>The student exhibits no major errors or omissions.</p>																								
<p>SCORE 2.0</p>	<p>There are no major errors or omissions regarding the simpler details and processes as the student:</p> <p>Recognizes or recalls specific terminology as:</p> <table border="0" style="width: 100%;"> <tr> <td><input type="checkbox"/> Piecewise Function</td> <td><input type="checkbox"/> Absolute Value Function</td> <td><input type="checkbox"/> Axis of Symmetry</td> <td><input type="checkbox"/> Vertical Squeeze</td> </tr> <tr> <td><input type="checkbox"/> Domain</td> <td><input type="checkbox"/> Quadratic Function</td> <td><input type="checkbox"/> Increasing/Decreasing</td> <td><input type="checkbox"/> Vertex</td> </tr> <tr> <td><input type="checkbox"/> Range</td> <td><input type="checkbox"/> Square Root Function</td> <td><input type="checkbox"/> Transformation</td> <td><input type="checkbox"/> Vertex Form</td> </tr> <tr> <td><input type="checkbox"/> Parent Function</td> <td><input type="checkbox"/> End Behavior</td> <td><input type="checkbox"/> Horizontal/Phase Shift</td> <td><input type="checkbox"/> Axis of Symmetry</td> </tr> <tr> <td><input type="checkbox"/> Linear Function</td> <td><input type="checkbox"/> X/Y-Intercepts</td> <td><input type="checkbox"/> Vertical Shift</td> <td><input type="checkbox"/> Endpoint</td> </tr> <tr> <td><input type="checkbox"/> Absolute Value Function</td> <td><input type="checkbox"/> Roots/Zeros</td> <td><input type="checkbox"/> Vertical Stretch</td> <td></td> </tr> </table> <p>Performs basic processes, such as:</p> <ul style="list-style-type: none"> <input type="checkbox"/> I can evaluate a piecewise function. <input type="checkbox"/> I can graph a linear piecewise function and state its domain and range. <input type="checkbox"/> I can describe the transformations to a parent function given the equation of a function. <input type="checkbox"/> I can write the equation of a function given its parent function and transformations. 	<input type="checkbox"/> Piecewise Function	<input type="checkbox"/> Absolute Value Function	<input type="checkbox"/> Axis of Symmetry	<input type="checkbox"/> Vertical Squeeze	<input type="checkbox"/> Domain	<input type="checkbox"/> Quadratic Function	<input type="checkbox"/> Increasing/Decreasing	<input type="checkbox"/> Vertex	<input type="checkbox"/> Range	<input type="checkbox"/> Square Root Function	<input type="checkbox"/> Transformation	<input type="checkbox"/> Vertex Form	<input type="checkbox"/> Parent Function	<input type="checkbox"/> End Behavior	<input type="checkbox"/> Horizontal/Phase Shift	<input type="checkbox"/> Axis of Symmetry	<input type="checkbox"/> Linear Function	<input type="checkbox"/> X/Y-Intercepts	<input type="checkbox"/> Vertical Shift	<input type="checkbox"/> Endpoint	<input type="checkbox"/> Absolute Value Function	<input type="checkbox"/> Roots/Zeros	<input type="checkbox"/> Vertical Stretch	
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