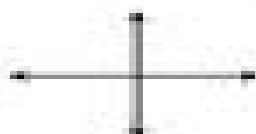


Topic A: Basic Parent Functions and Transformations

Directions: For each function family, give the parent function and sketch the shape of the graph.

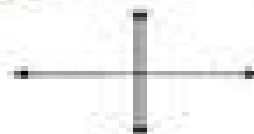
Linear



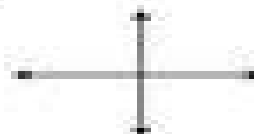
Absolute Value



Quadratic



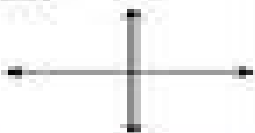
Cubic



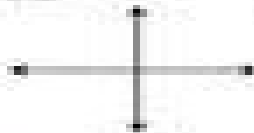
Square Root



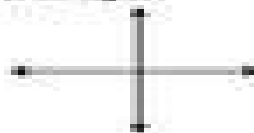
Cube Root



Reciprocal



Greatest Integer

Recall the following transformations rules given a function $f(x)$:

Translations (Shifts)

 $f(x + h)$ shifts left $f(x - h)$ shifts right $f(x) + k$ shifts up $f(x) - k$ shifts down

Reflections

 $-f(x)$ reflects over the x-axis $f(-x)$ reflects over the y-axis

Dilations (compress/stretch)

 $a \cdot f(x)$ is a vertical compression when $|a| < 1$ and a vertical stretch when $|a| > 1$ $f(b \cdot x)$ is a horizontal stretch when $|b| < 1$ and a horizontal compression when $|b| > 1$

Directions: Describe the transformations from the parent function.

1. $f(x) = 3(x + 2)^2 + 4$

2. $f(x) = \frac{1}{2}(x - 3) - 7$

3. $f(x) = -\frac{x+5}{6} - 3$

4. The greatest integer parent function is reflected in the y-axis, horizontally stretched by a factor of 4, and translated 3 units left. Write an equation to represent the new function.

5. The square root parent function is reflected in the x-axis, vertically compressed by a factor of 5, then translated 2 unit right and 3 unit down. Write an equation to represent the new function.

Pre Calculus Eoc Review

IM Harris



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Integrated Review

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Precalculus Ron Larson, 2022

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Precalculus with Calculus Previews Dennis G. Zill, Warren S.

Wright, 2007-03-23 The Student Resource Manual by Warren S. Wright includes a review of algebra, a review of complex numbers, and a review of the use of technology in calculus, including graphing calculator usage and worked out solutions to selected exercises. Additional exercises which may be used as homework assignments or in class discussion are also included.

Precalculus Judith A. Beecher, Judith A. Penna, Marvin L. Bittinger, 2012 Beecher Penna and Bittinger's Precalculus A Right Triangle Approach is known for enabling students to see the math through its focus on visualization and early introduction to functions. With the Fourth Edition the authors continue to innovate by incorporating more ongoing review to help students develop their understanding and study effectively. Mid chapter Review exercise sets have been added to give students practice in synthesizing the concepts and new Study Summaries provide built in tools to help them prepare for tests. The MyMathLab course access kit required has been expanded so that the online content is even more integrated with the text's approach with the addition of Vocabulary Synthesis and Mid chapter Review exercises from the text as well as example based videos created by the authors.

Pre-calculus Exam Notes Research and Education Association, 2002-06-01
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Precalculus Michael Sullivan, 2008-07

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specifications and manufacturer s installation manual 2 prior to install make sure duct are properly clean both side in and out

3 rectangular elbows shall be provided with turning vanes

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