

Name: _____

Period: _____

Transformations Worksheet

Without using your graphing calculator, describe the transformations of $y = a|x - h| + k$ to the parent function $y = |x|$ to create the following functions. For the function (a) tell whether the graph is reflected over the x -axis, (b) whether it is a vertical stretch or shrink, (c) whether it moves right or left, and (d) identify the vertex (h, k) .

1. $y = |x - 2|$

Transformation:

Vertex $(2, 0)$; graph shifts right 2 units

2. $y = |x| + 3$

Transformation:

Vertex $(0, 3)$; shifts up 3 units

3. $y = 2|x + 3|$

Transformation:

Vertex $(-3, 0)$; vertical stretch by a factor of 2;
shifts left 3

4. $y = 3|x|$

Transformation:

Vertex $(0, 0)$; vertical stretch by factor of 3;

5. $y = -2|(x + 3)| - 1$

Transformation:

Vertex $(-3, -1)$; reflects across the x -axis;
Vertical stretch by a factor of 2;
Shifts left 3 units and down 1 unit

6. $y = 2|x + 8|$

Transformation:

Vertex $(-8, 0)$; vertical stretch by a factor of 2;
shifts left 8

Write an equation for the absolute function described.

7. The parent function $y = |x|$ flipped vertically, and shifted up 3 units.Equation: $y = -|x| + 3$ 8. The parent function $y = |x|$ stretched vertically by a factor of 2, shifted left 3 units and down 4 units.Equation: $y = 2|x + 3| - 4$

Write an equation for the graphs shown below. Parent function is $y = |x|$.

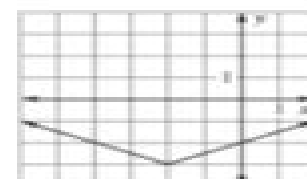
9.

Equation: Vertex $(-1, 2)$
 $y = |x + 1| + 2$

10.

Equation: Vertex $(2, 3)$
 $y = -2|x - 2| + 3$

11.

Equation: Vertex $(-2, -3)$
 $y = \frac{1}{2}|x + 2| - 3$

Algebra 2 Transformations Questions Answers

Michael Brown



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Logic-Based Program Synthesis and Transformation María Alpuente, 2011-05-02 This book constitutes the thoroughly refereed post proceedings of the 20th International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2010 held in Hagenberg Austria in July 2010 The 13 revised full papers presented together with two invited papers were carefully reviewed and selected from 26 submissions Among the topics covered are specification synthesis verification analysis optimization specialization security certification application and tools program model manipulation and transformation techniques for any programming language paradigm

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