

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:

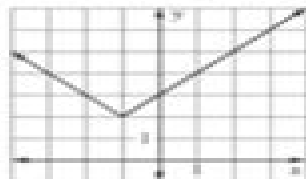
Vertex $(-8, 0)$; vertical stretch by a factor of 2;
shifts left 8

Write an equation for the absolute function described.

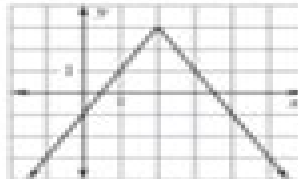
7. The parent function $y = |x|$ flipped vertically, and shifted up 3 units.Equation: $y = -|x| + 3$ 8. The parent function $y = |x|$ stretched vertically by a factor of 2, shifted left 3 units and down 4 units.Equation: $y = 2|x + 3| - 4$

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

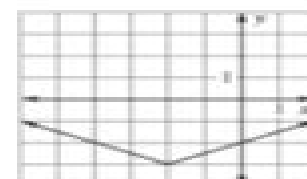
9.

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

10.

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

11.

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

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Marco Cascella



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