Transformations Worksheet

Without using your graphing calculator, describe the transformations of $y = \alpha |x - h| + k$ 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

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

Transformation:

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

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

Transformation:

Vertex (0, 3); shifts up 3 units

4.
$$y = 3|x|$$

Transformation:

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

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.

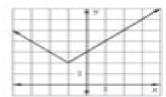
Equation:
$$y = -|x| + 3$$

8. The parent function y = |x| stretched vertically by a factor of 2, shifted left 3 units and down 4 units.

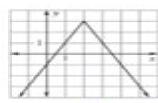
Equation:
$$y = 2|x+3|-4$$

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

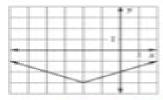
9.



Equation: Vertex (-1, 2) y = |x + 1| + 2 10.



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



Equation: Vertex (-2,-3)

$$y = \frac{1}{2}|x+2| - 3$$

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S Ashworth

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