

In Exercises 1-6, determine the vertex of each absolute value equation. Then, make an input-output table of each equation.

1. $f(x) = |x - 4| + 3$

Vertex: _____

2. $h(x) = |x - (-)6| + 1$

Vertex: _____

3. $g(x) = 2|x + 7| - 9$

Vertex: _____

4. $f(x) = |x| - 1$

Vertex: _____

5. $g(x) = |x - 1|$

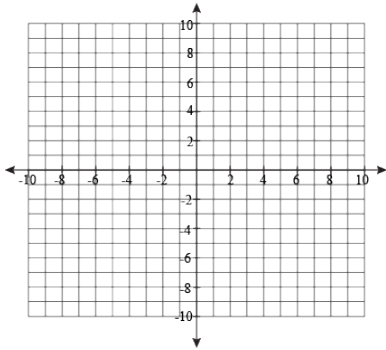
Vertex: _____

6. $g(x) = |x|$

Vertex: _____

In Exercises 7–12, graph the function $f(x) = |x|$. Then, graph the transformation. Compare the graph to the parent function $f(x)$. Describe the domain and range.

7. $g(x) = |x| - 2$ Vertex: _____

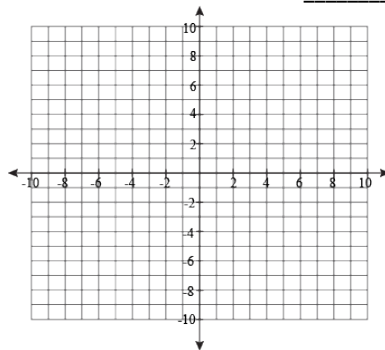


Transformation(s): _____

Domain: _____

Range: _____

8. $p(x) = -2|x|$ Vertex: _____

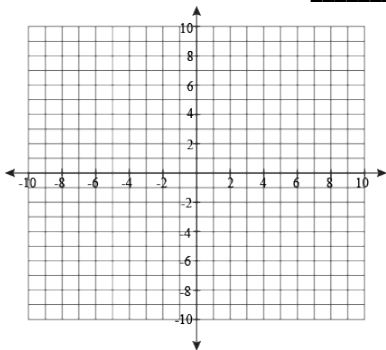


Transformation(s): _____

Domain: _____

Range: _____

9. $k(x) = \frac{1}{2}|x|$ Vertex: _____

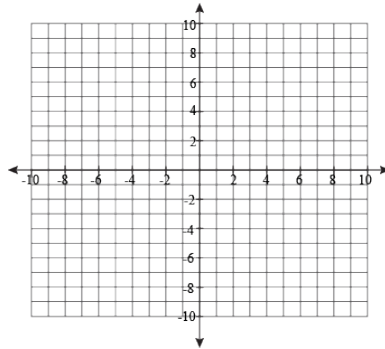


Transformation(s): _____

Domain: _____

Range: _____

10. $h(x) = |x + 5|$ Vertex: _____

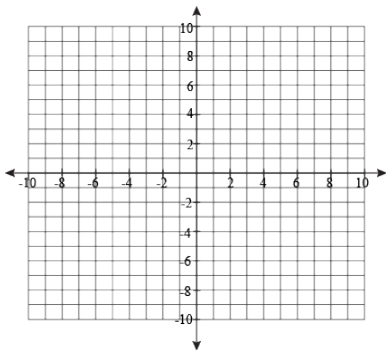


Transformation(s): _____

Domain: _____

Range: _____

11. $r(x) = |x + 3| - 7$ Vertex: _____

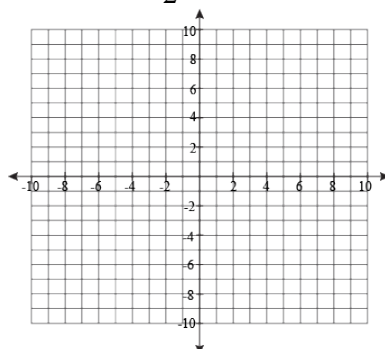


Transformation(s): _____

Domain: _____

Range: _____

11. $h(x) = \frac{1}{2}|x| + 4$ Vertex: _____



Transformation(s): _____

Domain: _____

Range: _____