

Practice 5.1.1
Graphing Absolute Value Functions

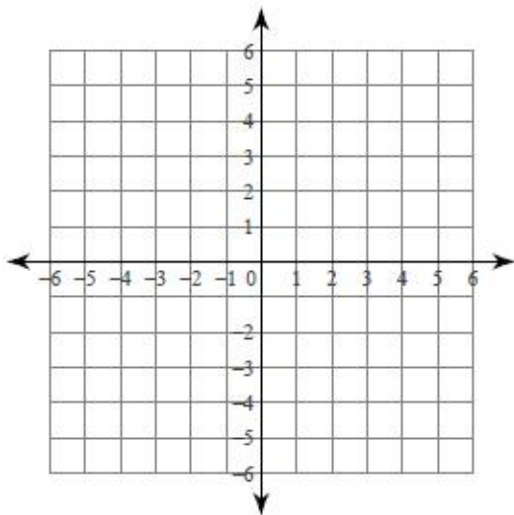
Name: _____ Hour: _____

Directions: Graph each absolute value function. Identify the vertex and axis of symmetry.

1. $y = |x + 1|$

Vertex:

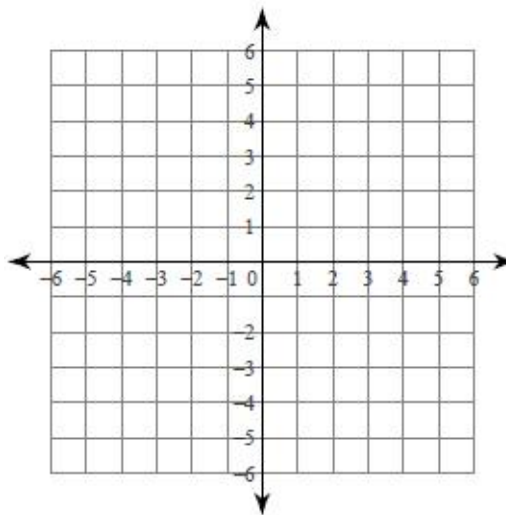
Axis of Symmetry:



2. $y = |x| + 1$

Vertex:

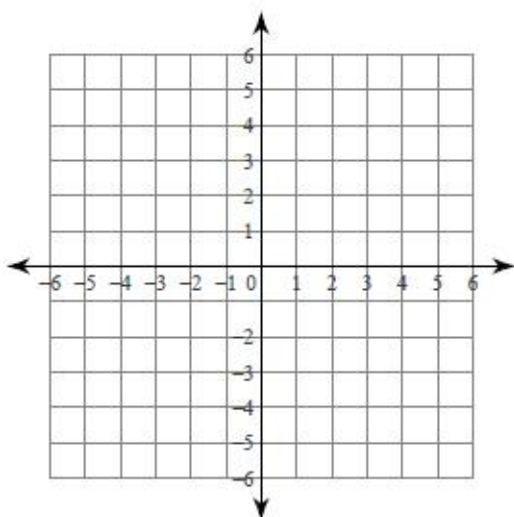
Axis of Symmetry:



3. $y = |x - 2| - 4$

Vertex:

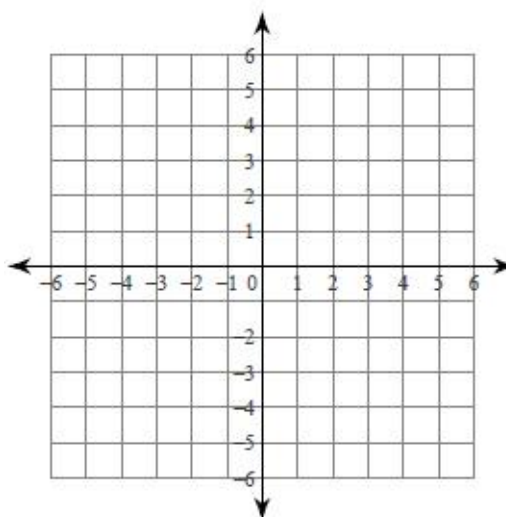
Axis of Symmetry:



4. $y = -|x + 2|$

Vertex:

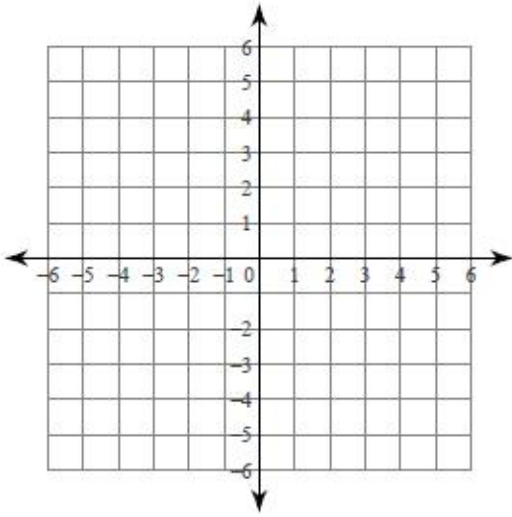
Axis of Symmetry:



5. $y = 2|x| - 1$

Vertex:

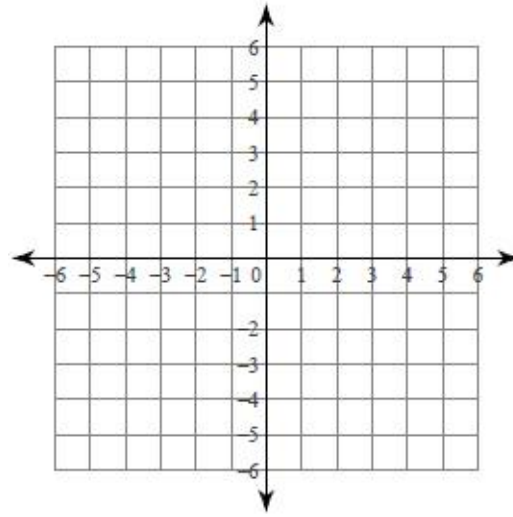
Axis of Symmetry:



6. $y = -3|x - 2|$

Vertex:

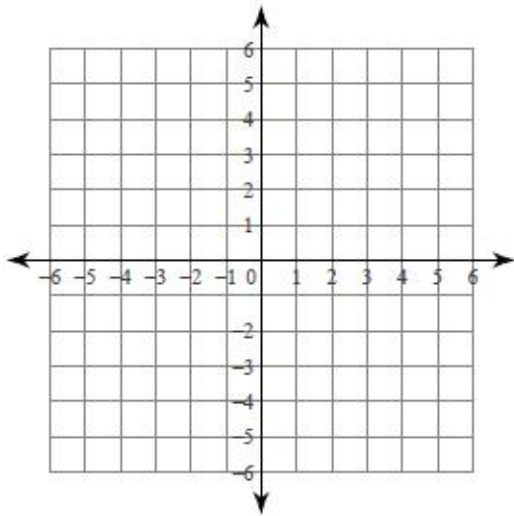
Axis of Symmetry:



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

Vertex:

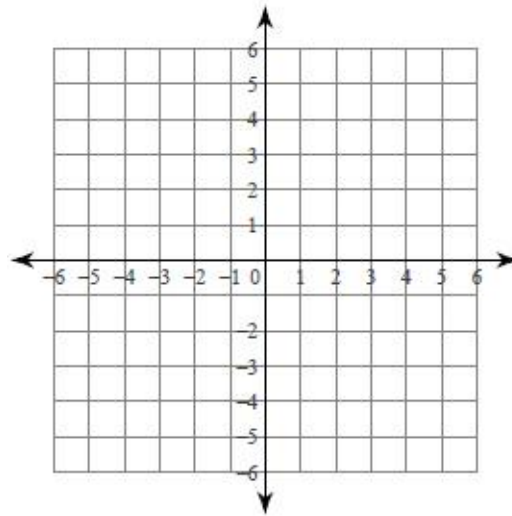
Axis of Symmetry:



8. $y = 3|x + 3| - 4$

Vertex:

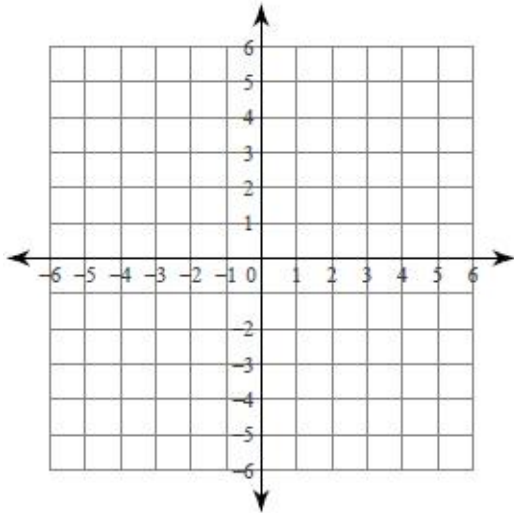
Axis of Symmetry:



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

Vertex:

Axis of Symmetry:



10. $y = -2|x + 1|$

Vertex:

Axis of Symmetry:

