

Graphing Absolute Value Functions

Graph each absolute value function on the coordinate grid.

1.

$y = |x + 4| + 4$

2.

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

3.

$y = |x + 2|$

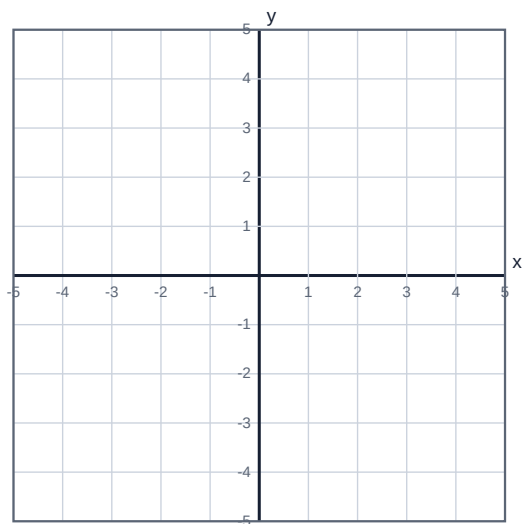
4.

$y = - |x - 1| - 1$

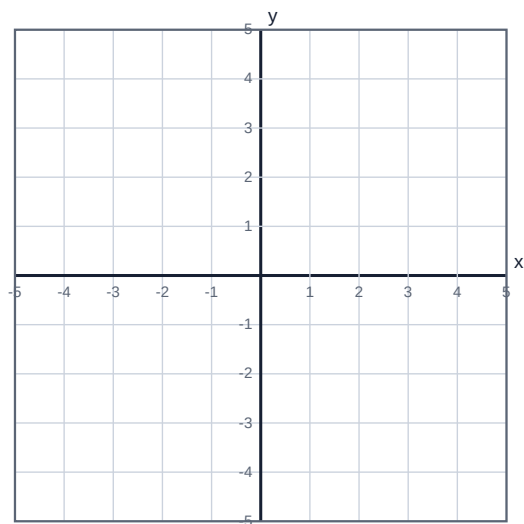
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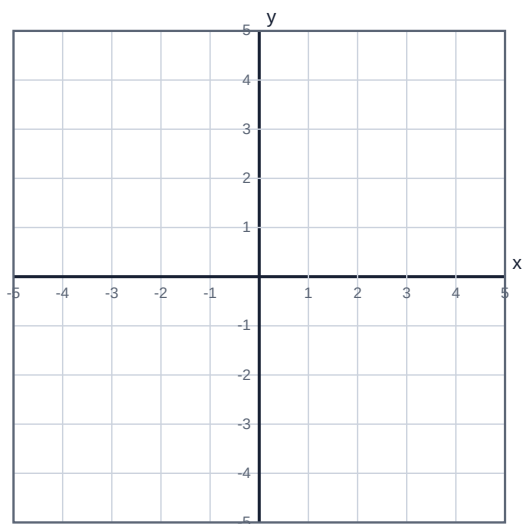
5. $y = -|x| - 1$



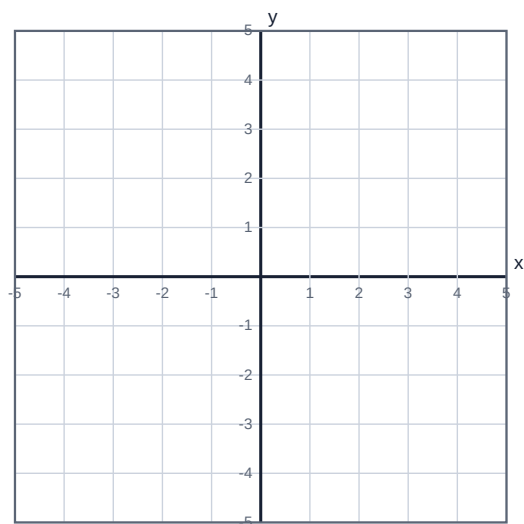
6. $y = |x + 2| + 1$



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



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

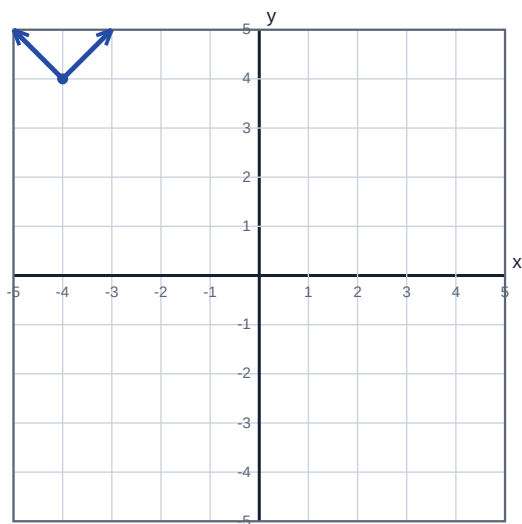


Graphing Absolute Value Functions

Answer key

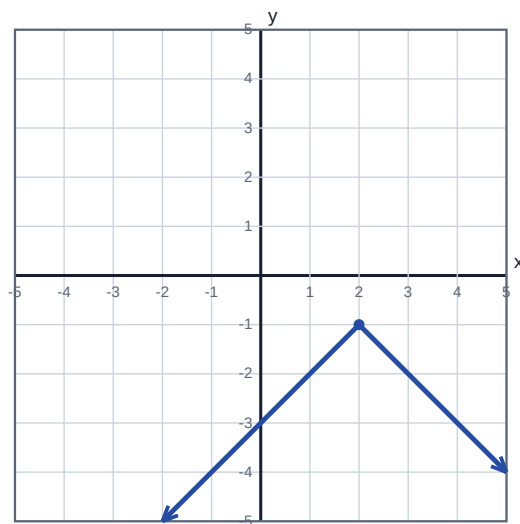
Graph each absolute value function on the coordinate grid.

1. $y = |x + 4| + 4$



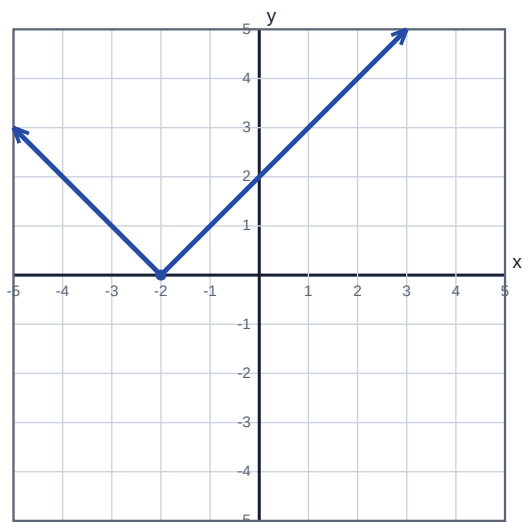
Vertex: (-4, 4)
Opens upward

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



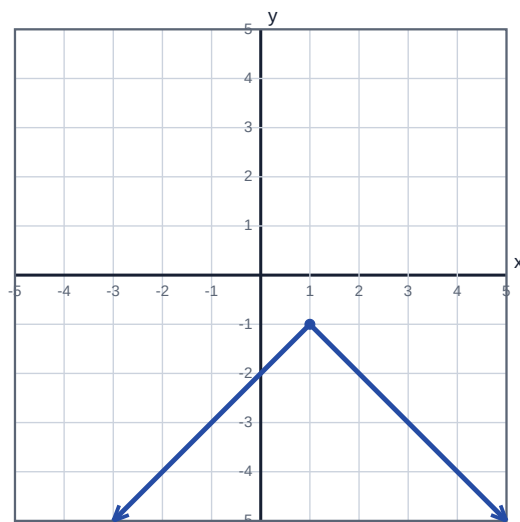
Vertex: (2, -1)
Opens downward

3. $y = |x + 2|$



Vertex: (-2, 0)
Opens upward

4. $y = -|x - 1| - 1$



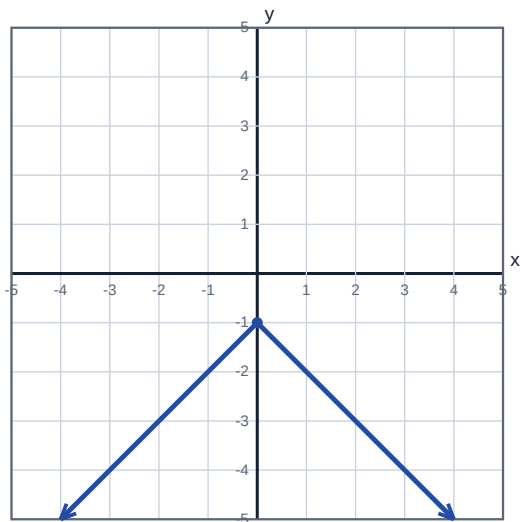
Vertex: (1, -1)
Opens downward

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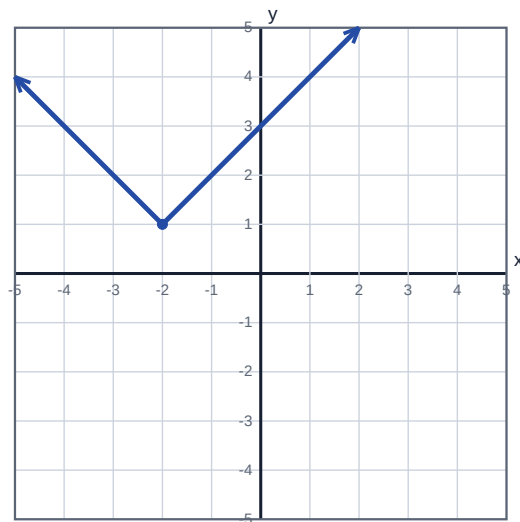
Graph each absolute value function on the coordinate grid.

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



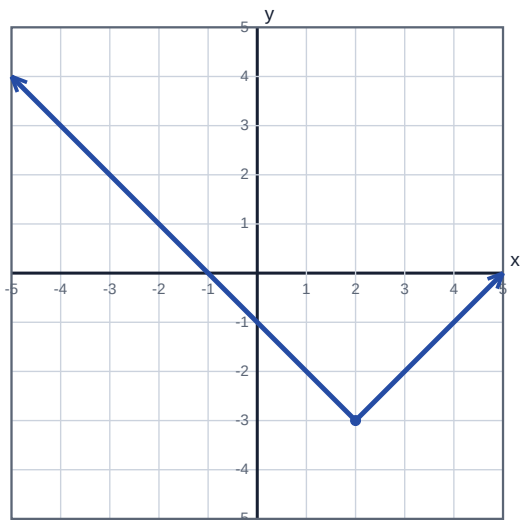
Vertex: (0, -1)
Opens downward

6. $y = |x + 2| + 1$



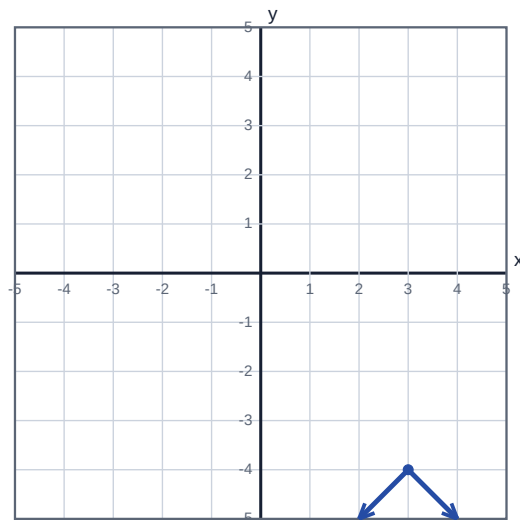
Vertex: (-2, 1)
Opens upward

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



Vertex: (2, -3)
Opens upward

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



Vertex: (3, -4)
Opens downward