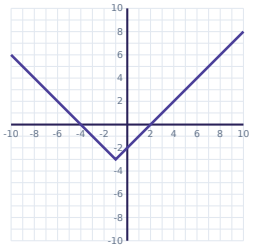
Task card 1 Graphing Absolute Value Functions

What is the vertex of the absolute value graph?



Task card 2 Graphing Absolute Value Functions

Find the vertex of the graph of $y = |x + 1| - 7$.

Task card 3 Graphing Absolute Value Functions

Does the graph of $y = -2|x - 4| - 8$ open up or down?

Task card 4 Graphing Absolute Value Functions

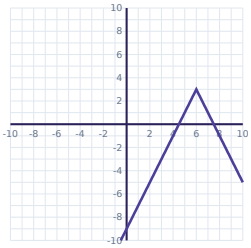
Find the axis of symmetry of the graph of $y = -|x - 4| + 1$.

Task card 5 Graphing Absolute Value Functions

The graph of $y = |x|$ is shifted 4 units right and 2 units down. Write the equation of the new graph.

Task card 6 Graphing Absolute Value Functions

What is the vertex of the absolute value graph?

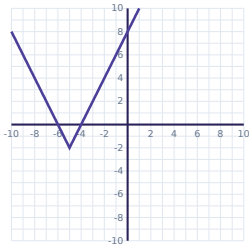


Task card 7 Graphing Absolute Value Functions

Find the vertex of the graph of y = 2|x + 2| + 1.

Task card 8 Graphing Absolute Value Functions

What is the vertex of the absolute value graph?



Task card 9 Graphing Absolute Value Functions

Find the vertex of the graph of y = -2|x + 5| - 7.

Task card 10 Graphing Absolute Value Functions

Does the graph of y = |x - 2| + 5 open up or down?

Task card 11 Graphing Absolute Value Functions

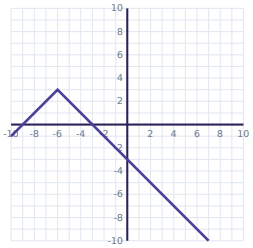
Find the axis of symmetry of the graph of y = -|x - 1| + 9.

Task card 12 Graphing Absolute Value Functions

The graph of y = |x| is shifted 2 units right and 3 units up. Write the equation of the new graph.

Task card 13 Graphing Absolute Value Functions

What is the vertex of the absolute value graph?



Task card 14 Graphing Absolute Value Functions

Find the vertex of the graph of $y = |x - 4| + 8$.

Task card 15 Graphing Absolute Value Functions

Find the vertex of the graph of $y = -4|x - 6| - 7$.

Task card 16 Graphing Absolute Value Functions

What is the slope of the right-hand branch (where $x > -1$) of the graph of $y = |x + 1| + 4$?

Task card 17 Graphing Absolute Value Functions

Find the y-intercept of the graph of $y = -|x + 6| - 8$. Write the y-value only.

Task card 18 Graphing Absolute Value Functions

Find the maximum value of $y = -2|x - 1| + 4$.

Task card 19 Graphing Absolute Value Functions

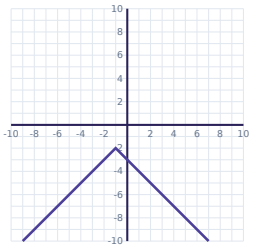
Find the axis of symmetry of the graph of $y = 3|x - 5| + 8$.

Task card 20 Graphing Absolute Value Functions

The graph of $y = |x|$ is reflected across the x-axis and then shifted 4 units right and 2 units up. Write the equation of the new graph.

Task card 21 Graphing Absolute Value Functions

What is the vertex of the absolute value graph?



Task card 22 Graphing Absolute Value Functions

Find the vertex of the graph of $y = 2|x - 3| - 3$.

Task card 23 Graphing Absolute Value Functions

Does the graph of $y = |x + 2| - 6$ open up or down?

Task card 24 Graphing Absolute Value Functions

Find the axis of symmetry of the graph of $y = 2|x - 4| + 9$.

Graphing Absolute Value Functions Task Cards

Recording sheet · Grade 9 · Write a vertex as an ordered pair like (2, -3), an axis of symmetry like x = 2, x-intercepts like x = -1 or x = 5, and an equation like y = 2|x - 1| + 3. To graph a V, click its vertex and two more points on the grid.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Graphing Absolute Value Functions Task Cards: Answer Key

Grade 9 · Easy

The answers online

1. (-1, -3)	**2.** (-1, -7)	**3.** down
4. x = 4	**5.** y = |x - 4| - 2	**6.** (6, 3)
7. (-2, 1)	**8.** (-5, -2)	**9.** (-5, -7)
10. up	**11.** x = 1	**12.** y = |x - 2| + 3
13. (-6, 3)	**14.** (4, 8)	**15.** (6, -7)
16. 1	**17.** -14	**18.** 4
19. x = 5	**20.** y = -|x - 4| + 2	**21.** (-1, -2)
22. (3, -3)	**23.** up	**24.** x = 4