Task card 1 Vertex Form & Graphs of Parabolas

Find the vertex of $y = 2(x + 1)^2 + 4$. Write it as (h, k).

Task card 2 Vertex Form & Graphs of Parabolas

Find the axis of symmetry of $y = -(x - 2)^2 + 2$.

Task card 3 Vertex Form & Graphs of Parabolas

What is the maximum value of $y = -2(x - 3)^2 - 1$?

Task card 4 Vertex Form & Graphs of Parabolas

Find the vertex of $y = (x - 3)^2$. Write it as (h, k).

Task card 5 Vertex Form & Graphs of Parabolas

Find the axis of symmetry of $y = -(x + 3)^2 - 2$.

Task card 6 Vertex Form & Graphs of Parabolas

What is the maximum value of $y = -(x + 2)^2 + 4$?

Task card 7 Vertex Form & Graphs of Parabolas

Find the vertex of $y = (x - 2)^2 - 3$. Write it as (h, k).

Task card 8 Vertex Form & Graphs of Parabolas

Find the axis of symmetry of $y = -2(x - 2)^2 - 1$.

Task card 9 Vertex Form & Graphs of Parabolas

What is the minimum value of $y = (x - 1)^2 - 3$?

Task card 10 Vertex Form & Graphs of Parabolas

Find the vertex of $y = -2(x + 4)^2 - 1$. Write it as (h, k).

Task card 11 Vertex Form & Graphs of Parabolas

Find the axis of symmetry of $y = (x - 5)^2 - 4$.

Task card 12 Vertex Form & Graphs of Parabolas

What is the minimum value of $y = 3(x + 4)^2 - 4$?

Task card 13 Vertex Form & Graphs of Parabolas

Find the vertex of $y = -2(x - 5)^2 - 4$. Write it as (h, k).

Task card 14 Vertex Form & Graphs of Parabolas

What is the minimum value of $y = 3(x - 4)^2 - 6$?

Task card 15 Vertex Form & Graphs of Parabolas

Write in vertex form by completing the square: $y = x^2 + 2x - 2$

Task card 16 Vertex Form & Graphs of Parabolas

Write in vertex form by completing the square: $y = x^2 + 8x + 10$

Task card 17 Vertex Form & Graphs of Parabolas

Find the axis of symmetry of $y = -(x - 3)^2 + 3$.

Task card 18 Vertex Form & Graphs of Parabolas

Find the vertex of $y = 2(x + 1)^2 + 2$. Write it as (h, k).

Task card 19 Vertex Form & Graphs of Parabolas

Find the axis of symmetry of $y = -(x + 1)^2 - 3$.

Task card 20 Vertex Form & Graphs of Parabolas

What is the maximum value of $y = -(x + 2)^2 - 4$?

Task card 21 Vertex Form & Graphs of Parabolas

Find the vertex of $y = -2(x + 2)^2 + 4$. Write it as (h, k).

Task card 22 Vertex Form & Graphs of Parabolas

Find the axis of symmetry of $y = -(x - 2)^2 + 3$.

Task card 23 Vertex Form & Graphs of Parabolas

What is the minimum value of $y = (x + 1)^2 - 4$?

Task card 24 Vertex Form & Graphs of Parabolas

Find the vertex of $y = 2x^2 + 5$. Write it as (h, k).

Vertex Form & Graphs of Parabolas Task Cards

Recording sheet · Grade 11 · Answer each question about the parabola. To graph one, click its vertex and two more points on the grid.

Name: _____ Date: _____

Scan to check your answers

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

Vertex Form & Graphs of Parabolas Task Cards: Answer Key

Grade 11 · Easy

The answers online

1. (-1, 4)	**2.** x = 2	**3.** -1
4. (3, 0)	**5.** x = -3	**6.** 4
7. (2, -3)	**8.** x = 2	**9.** -3
10. (-4, -1)	**11.** x = 5	**12.** -4
13. (5, -4)	**14.** -6	**15.** $y = (x + 1)^2 - 3$
16. $y = (x + 4)^2 - 6$	**17.** x = 3	**18.** (-1, 2)
19. x = -1	**20.** -4	**21.** (-2, 4)
22. x = 2	**23.** -4	**24.** (0, 5)