Task card 1 Vertex Form & Graphs of Parabolas

Find the vertex of $y = 3(x - 2)^2 + 1$. Write it as (h, k).

Task card 2 Vertex Form & Graphs of Parabolas

What is the minimum value of $y = 3x^2 - 12x + 11$?

Task card 3 Vertex Form & Graphs of Parabolas

Write in vertex form by completing the square: $y = x^2 - 12x + 36$

Task card 4 Vertex Form & Graphs of Parabolas

Write in vertex form by completing the square: $y = x^2 + 14x + 53$

Task card 5 Vertex Form & Graphs of Parabolas

Find the axis of symmetry of $y = -3(x + 3)^2 - 6$.

Task card 6 Vertex Form & Graphs of Parabolas

Find the vertex of $y = (x + 7)^2 + 3$. Write it as (h, k).

Task card 7 Vertex Form & Graphs of Parabolas

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

Task card 8 Vertex Form & Graphs of Parabolas

Write in vertex form by completing the square: $y = x^2 - 16x + 61$

Task card 9 Vertex Form & Graphs of Parabolas

Write in vertex form by completing the square: $y = x^2 - 12x + 41$

Task card 10 Vertex Form & Graphs of Parabolas

Find the axis of symmetry of $y = -4(x - 1)^2 + 4$.

Task card 11 Vertex Form & Graphs of Parabolas

Write in vertex form by completing the square: $y = x^2 + 14x + 42$

Task card 12 Vertex Form & Graphs of Parabolas

Write in vertex form by completing the square: $y = 3x^2 - 42x + 151$

Task card 13 Vertex Form & Graphs of Parabolas

What is the minimum value of $y = x^2 - 2x - 2$?

Task card 14 Vertex Form & Graphs of Parabolas

Write in vertex form by completing the square: $y = 3x^2 - 12x + 16$

Task card 15 Vertex Form & Graphs of Parabolas

Find the vertex of $y = 4(x - 2)^2 - 3$. Write it as (h, k).

Task card 16 Vertex Form & Graphs of Parabolas

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

Task card 17 Vertex Form & Graphs of Parabolas

What is the minimum value of $y = 3(x - 4)^2 - 1$?

Task card 18 Vertex Form & Graphs of Parabolas

Write in vertex form by completing the square: $y = x^2 - 4x + 5$

Task card 19 Vertex Form & Graphs of Parabolas

Write in vertex form by completing the square: $y = x^2 + 6x + 5$

Task card 20 Vertex Form & Graphs of Parabolas

Find the axis of symmetry of $y = 4(x - 6)^2 - 3$.

Task card 21 Vertex Form & Graphs of Parabolas

Find the vertex of $y = -3(x + 5)^2 - 7$. Write it as (h, k).

Task card 22 Vertex Form & Graphs of Parabolas

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

Task card 23 Vertex Form & Graphs of Parabolas

Write in vertex form by completing the square: $y = x^2 + 12x + 38$

Task card 24 Vertex Form & Graphs of Parabolas

Write in vertex form by completing the square: $y = x^2 + 6x + 14$

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 · Medium

The answers online

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