Task card 1 Graphing Quadratic Functions (Vert...

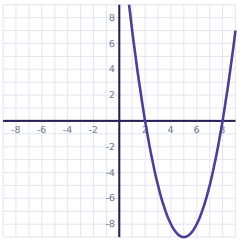
Find the vertex of $y = x^2 + 14x + 43$.

Task card 2 Graphing Quadratic Functions (Vert...

Find the axis of symmetry of $y = -3x^2 + 48x - 204$.

Task card 3 Graphing Quadratic Functions (Vert...

What are the x-intercepts of the parabola?

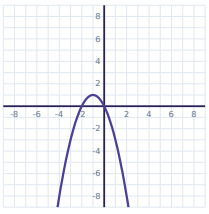


Task card 4 Graphing Quadratic Functions (Vert...

Find the maximum value of $y = -x^2 + 14x - 56$.

Task card 5 Graphing Quadratic Functions (Vert...

What is the vertex of the parabola?



Task card 6 Graphing Quadratic Functions (Vert...

Find the vertex of $y = 3x^2 + 48x + 191$.

Task card 7 Graphing Quadratic Functions (Vert...

Find the minimum value of $y = 3x^2 + 6x + 3$.

Task card 8 Graphing Quadratic Functions (Vert...

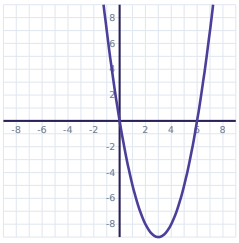
Find the vertex of $y = 4x^2 + 8x + 4$.

Task card 9 Graphing Quadratic Functions (Vert...

Find the axis of symmetry of $y = 2x^2 - 4x + 11$.

Task card 10 Graphing Quadratic Functions (Vert...

What are the x-intercepts of the parabola?

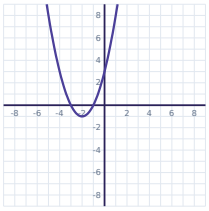


Task card 11 Graphing Quadratic Functions (Vert...

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

Task card 12 Graphing Quadratic Functions (Vert...

What is the vertex of the parabola?



Task card 13 Graphing Quadratic Functions (Vert...

Find the vertex of $y = 4x^2 - 16x + 18$.

Task card 14 Graphing Quadratic Functions (Vert...

Find the minimum value of $y = 3x^2 - 6x - 1$.

Task card 15 Graphing Quadratic Functions (Vert...

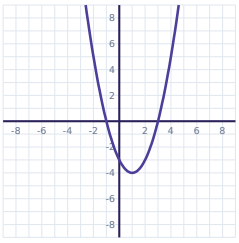
Find the vertex of $y = -4x^2 + 64x - 266$.

Task card 16 Graphing Quadratic Functions (Vert...

Find the axis of symmetry of $y = -2x^2 - 32x - 126$.

Task card 17 Graphing Quadratic Functions (Vert...

What are the x-intercepts of the parabola?

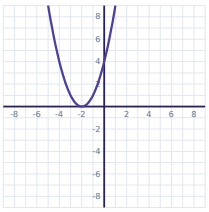


Task card 18 Graphing Quadratic Functions (Vert...

Find the maximum value of $y = -x^2 - 12x - 36$.

Task card 19 Graphing Quadratic Functions (Vert...

What is the vertex of the parabola?



Task card 20 Graphing Quadratic Functions (Vert...

Find the vertex of $y = 4x^2 - 40x + 91$.

Task card 21 Graphing Quadratic Functions (Vert...

Find the maximum value of $y = -2x^2 + 4x + 5$.

Task card 22 Graphing Quadratic Functions (Vert...

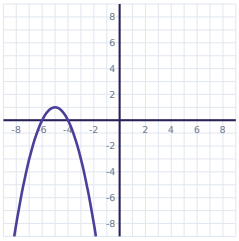
Find the vertex of $y = 3x^2 - 18x + 29$.

Task card 23 Graphing Quadratic Functions (Vert...

Find the axis of symmetry of $y = x^2 - 16x + 57$.

Task card 24 Graphing Quadratic Functions (Vert...

What are the x-intercepts of the parabola?



Graphing Quadratic Functions (Vertex & Axis of Symmetry) Task Cards

Recording sheet · Grade 9 · Write a vertex as an ordered pair like (2, -3), an axis of symmetry like x = 2, and x-intercepts like x = -1 or x = 5. To graph a parabola, 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 Quadratic Functions (Vertex & Axis of Symmetry) Task Cards: Answer Key

Grade 9 · Hard

The answers online

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