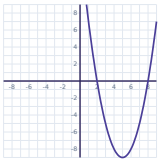
Find the vertex of $y = x^2 + 14x + 43$.

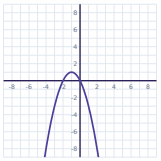
Find the axis of symmetry of $y = -3x^2 + 48x - 204$.

What are the x-intercepts of the parabola?



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

What is the vertex of the parabola?



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

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

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

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 2

ANSWER

x = 8

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 1

ANSWER

(-7, -6)

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 4

ANSWER

-7

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 3

ANSWER

x = 2 or x = 8

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 6

ANSWER

(-8, -1)

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 5

ANSWER

(-1, 1)

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 8

ANSWER

(-1, 0)

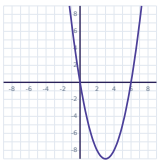
Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 7

ANSWER

0

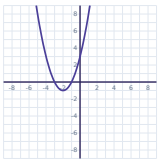
Find the axis of symmetry of $y = 2x^2 - 4x + 11$.

What are the x-intercepts of the parabola?



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

What is the vertex of the parabola?



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

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

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

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

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 10

ANSWER

$x = 0$ or $x = 6$

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 9

ANSWER

$x = 1$

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 12

ANSWER

$(-2, -1)$

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 11

ANSWER

6

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 14

ANSWER

-4

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 13

ANSWER

$(2, 2)$

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 16

ANSWER

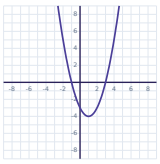
$x = -8$

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 15

ANSWER

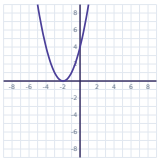
$(8, -10)$

What are the x-intercepts of the parabola?



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

What is the vertex of the parabola?



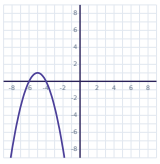
Find the vertex of $y = 4x^2 - 40x + 91$.

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

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

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

What are the x-intercepts of the parabola?



Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 18

ANSWER

0

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 17

ANSWER

x = -1 or x = 3

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 20

ANSWER

(5, -9)

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 19

ANSWER

(-2, 0)

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 22

ANSWER

(3, 2)

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 21

ANSWER

7

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 24

ANSWER

x = -6 or x = -4

Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 23

ANSWER

x = 8