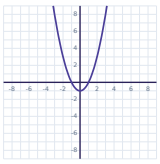
Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 1

What is the vertex of the parabola?



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

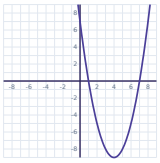
Find the axis of symmetry of $y = 2x^2 - 16x + 42$.

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

Find the vertex of $y = 2x^2 + 8x + 14$.

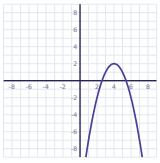
Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 4

What are the x-intercepts of the parabola?



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

What is the vertex of the parabola?

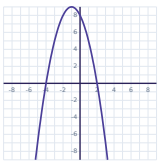


Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 6

Find the vertex of $y = x^2 - 2x + 6$.

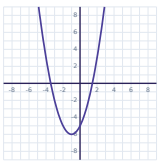
Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 7

What are the x-intercepts of the parabola?



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

What is the vertex of the parabola?



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

ANSWER

x = 4

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

ANSWER

(0, -1)

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

ANSWER

x = 1 or x = 7

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

ANSWER

(-2, 6)

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

ANSWER

(1, 5)

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

ANSWER

(4, 2)

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

ANSWER

(-1, -6)

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

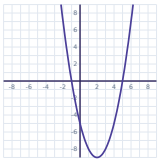
ANSWER

x = -4 or x = 2

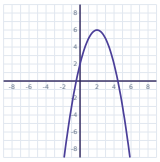
Find the axis of symmetry of $y = x^2 - 4x + 5$.

Find the vertex of $y = x^2 + 2x - 10$.

What are the x-intercepts of the parabola?

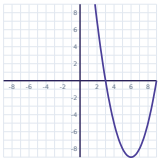


What is the vertex of the parabola?

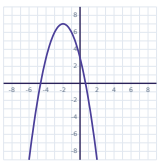


Find the vertex of $y = 2x^2 + 20x + 62$.

What are the x-intercepts of the parabola?



What is the vertex of the parabola?



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

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

ANSWER

(-1, -11)

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

ANSWER

x = 2

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

ANSWER

(2, 6)

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

ANSWER

x = -1 or x = 5

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

ANSWER

x = 3 or x = 9

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

ANSWER

(-5, 12)

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

ANSWER

x = -1

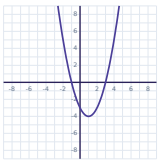
Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 15

ANSWER

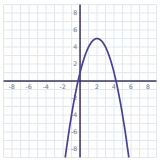
(-2, 7)

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

What are the x-intercepts of the parabola?

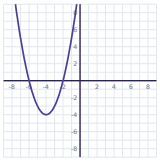


What is the vertex of the parabola?

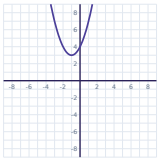


Find the vertex of $y = -x^2 - 2x - 4$.

What are the x-intercepts of the parabola?



What is the vertex of the parabola?



Find the axis of symmetry of $y = x^2 + 4x + 14$.

Find the vertex of $y = 2x^2 - 8x + 1$.

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

ANSWER

$x = -1$ or $x = 3$

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

ANSWER

$(-1, -2)$

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

ANSWER

$(-1, -3)$

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

ANSWER

$(2, 5)$

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

ANSWER

$(-1, 3)$

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

ANSWER

$x = -6$ or $x = -2$

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

ANSWER

$(2, -7)$

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

ANSWER

$x = -2$