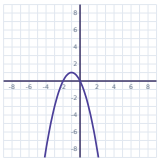
Find the vertex of $y = -3x^2 + 12x - 20$.

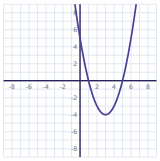
Find the axis of symmetry of $y = -4x^2 - 48x - 138$.

What are the x-intercepts of the parabola?



Find the minimum value of $y = 3x^2 + 18x + 30$.

What is the vertex of the parabola?



Find the vertex of $y = 3x^2 - 6x + 13$.

Find the maximum value of $y = -x^2 + 12x - 35$.

Find the vertex of $y = 3x^2 + 30x + 86$.

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

ANSWER

x = -6

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

ANSWER

(2, -8)

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

ANSWER

3

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

ANSWER

x = -2 or x = 0

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

ANSWER

(1, 10)

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

ANSWER

(3, -4)

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

ANSWER

(-5, 11)

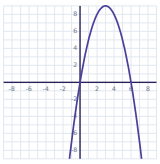
Graphing Quadratic Functions (Vertex & Axis of Symmetry) · 7

ANSWER

1

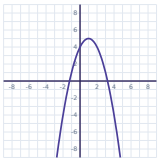
Find the axis of symmetry of $y = 3x^2 - 6x - 3$.

What are the x-intercepts of the parabola?



Find the minimum value of $y = x^2 + 8x + 5$.

What is the vertex of the parabola?



Find the vertex of $y = 3x^2 + 12x + 22$.

Find the minimum value of $y = x^2 + 6x + 8$.

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

Find the axis of symmetry of $y = 2x^2 - 32x + 139$.

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

$(1, 5)$

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

ANSWER

-11

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

ANSWER

-1

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

ANSWER

$(-2, 10)$

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

ANSWER

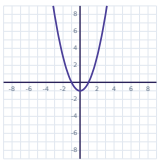
$x = 8$

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

ANSWER

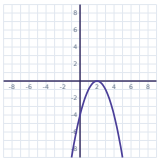
$(2, -12)$

What are the x-intercepts of the parabola?



Find the minimum value of $y = x^2 - 10x + 29$.

What is the vertex of the parabola?



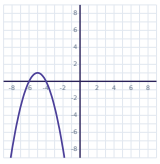
Find the vertex of $y = x^2 + 14x + 50$.

Find the minimum value of $y = 2x^2 + 16x + 21$.

Find the vertex of $y = -4x^2 + 8x + 7$.

Find the axis of symmetry of $y = 4x^2 + 40x + 94$.

What are the x-intercepts of the parabola?



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

ANSWER

4

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

ANSWER

x = -1 or x = 1

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

ANSWER

(-7, 1)

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

ANSWER

(2, 0)

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

ANSWER

(1, 11)

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

ANSWER

-11

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

ANSWER

x = -6 or x = -4

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

ANSWER

x = -5