

## Solutions – Vertex of Quadratics (A)

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

Vertex:  $(0, -1)$

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

Vertex:  $(2, 0)$

Find the vertex of the quadratic  $y = -x^2 + 12x - 26$ .

Vertex:  $(6, 10)$

Find the vertex of the quadratic  $y = 2x^2 - 16x + 28$ .

Vertex:  $(4, -4)$

Find the vertex of the quadratic  $y = 3x^2 + 6x - 4$ .

Vertex:  $(-1, -7)$

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

Vertex:  $(3, -9)$

## Solutions – Vertex of Quadratics (B)

Find the vertex of the quadratic  $y = x^2 - 3$ .

Vertex:  $(0, -3)$

Find the vertex of the quadratic  $y = 3x^2 - 36x + 117$ .

Vertex:  $(6, 9)$

Find the vertex of the quadratic  $y = -3x^2 - 18x - 21$ .

Vertex:  $(-3, 6)$

Find the vertex of the quadratic  $y = -2x^2 - 20x - 58$ .

Vertex:  $(-5, -8)$

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

Vertex:  $(0, -4)$

Find the vertex of the quadratic  $y = 3x^2 + 6x - 5$ .

Vertex:  $(-1, -8)$

## Solutions – Vertex of Quadratics (C)

Find the vertex of the quadratic  $y = 2x^2 + 12x + 21$ .

Vertex:  $(-3, 3)$

Find the vertex of the quadratic  $y = -3x^2 - 24x - 55$ .

Vertex:  $(-4, -7)$

Find the vertex of the quadratic  $y = x^2 + 12x + 27$ .

Vertex:  $(-6, -9)$

Find the vertex of the quadratic  $y = -3x^2 + 12x - 21$ .

Vertex:  $(2, -9)$

Find the vertex of the quadratic  $y = 3x^2 - 6x + 7$ .

Vertex:  $(1, 4)$

Find the vertex of the quadratic  $y = -x^2 - 2x - 11$ .

Vertex:  $(-1, -10)$

## Solutions – Vertex of Quadratics (D)

Find the vertex of the quadratic  $y = -3x^2 + 12x - 21$ .

Vertex: (2, -9)

Find the vertex of the quadratic  $y = 2x^2 + 20x + 57$ .

Vertex: (-5, 7)

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

Vertex: (1, -5)

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

Vertex: (-3, 2)

Find the vertex of the quadratic  $y = -2x^2 - 4x + 1$ .

Vertex: (-1, 3)

Find the vertex of the quadratic  $y = -3x^2 + 36x - 104$ .

Vertex: (6, 4)

## Solutions – Vertex of Quadratics (E)

Find the vertex of the quadratic  $y = -2x^2 + 20x - 50$ .

Vertex: (5, 0)

Find the vertex of the quadratic  $y = x^2 + 4x + 5$ .

Vertex: (-2, 1)

Find the vertex of the quadratic  $y = -x^2 + 12x - 46$ .

Vertex: (6, -10)

Find the vertex of the quadratic  $y = -3x^2 + 36x - 113$ .

Vertex: (6, -5)

Find the vertex of the quadratic  $y = 2x^2 - 20x + 41$ .

Vertex: (5, -9)

Find the vertex of the quadratic  $y = -3x^2 + 18x - 21$ .

Vertex: (3, 6)

## Solutions – Vertex of Quadratics (F)

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

Vertex: (2, -10)

Find the vertex of the quadratic  $y = 3x^2 - 24x + 52$ .

Vertex: (4, 4)

Find the vertex of the quadratic  $y = 3x^2 - 3$ .

Vertex: (0, -3)

Find the vertex of the quadratic  $y = x^2 - 10x + 26$ .

Vertex: (5, 1)

Find the vertex of the quadratic  $y = -3x^2 + 30x - 73$ .

Vertex: (5, 2)

Find the vertex of the quadratic  $y = -x^2 + 2x + 5$ .

Vertex: (1, 6)

## Solutions – Vertex of Quadratics (G)

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

Vertex: (0, 2)

Find the vertex of the quadratic  $y = 2x^2 + 16x + 42$ .

Vertex: (-4, 10)

Find the vertex of the quadratic  $y = 2x^2 - 24x + 81$ .

Vertex: (6, 9)

Find the vertex of the quadratic  $y = 2x^2 + 7$ .

Vertex: (0, 7)

Find the vertex of the quadratic  $y = 3x^2 - 18x + 30$ .

Vertex: (3, 3)

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

Vertex: (-4, -9)

## Solutions – Vertex of Quadratics (H)

Find the vertex of the quadratic  $y = -3x^2 - 36x - 114$ .

Vertex:  $(-6, -6)$

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

Vertex:  $(0, -10)$

Find the vertex of the quadratic  $y = -3x^2 - 12x - 17$ .

Vertex:  $(-2, -5)$

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

Vertex:  $(1, -2)$

Find the vertex of the quadratic  $y = x^2 - 6x + 9$ .

Vertex:  $(3, 0)$

Find the vertex of the quadratic  $y = 3x^2 - 12x + 8$ .

Vertex:  $(2, -4)$

## Solutions – Vertex of Quadratics (I)

Find the vertex of the quadratic  $y = 3x^2 + 30x + 66$ .

Vertex:  $(-5, -9)$

Find the vertex of the quadratic  $y = -3x^2 + 36x - 101$ .

Vertex:  $(6, 7)$

Find the vertex of the quadratic  $y = x^2 + 4x - 5$ .

Vertex:  $(-2, -9)$

Find the vertex of the quadratic  $y = -2x^2 + 20x - 54$ .

Vertex:  $(5, -4)$

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

Vertex:  $(1, 6)$

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

Vertex:  $(1, -5)$

## Solutions – Vertex of Quadratics (J)

Find the vertex of the quadratic  $y = 2x^2 - 8x + 15$ .

Vertex: (2, 7)

Find the vertex of the quadratic  $y = -x^2 + 12x - 37$ .

Vertex: (6, -1)

Find the vertex of the quadratic  $y = -x^2 - 2x - 5$ .

Vertex: (-1, -4)

Find the vertex of the quadratic  $y = 2x^2 + 8x + 17$ .

Vertex: (-2, 9)

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

Vertex: (-2, -6)

Find the vertex of the quadratic  $y = 3x^2 - 12x + 21$ .

Vertex: (2, 9)