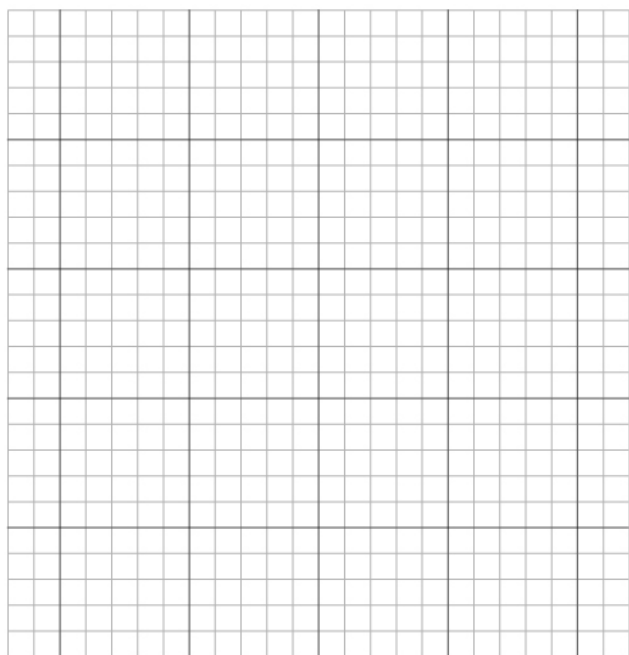


Graphing Quadratics

$$f(x) = ax^2 + bx + c$$

Graph the following functions. Also identify the vertex and the axis of symmetry.

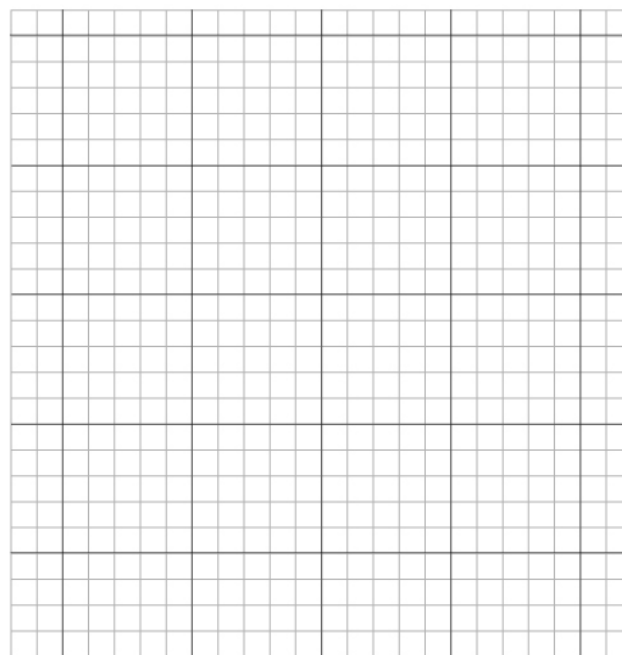
① $y = 2x^2 + 4x - 6$



Vertex : _____

Axis of symmetry : _____

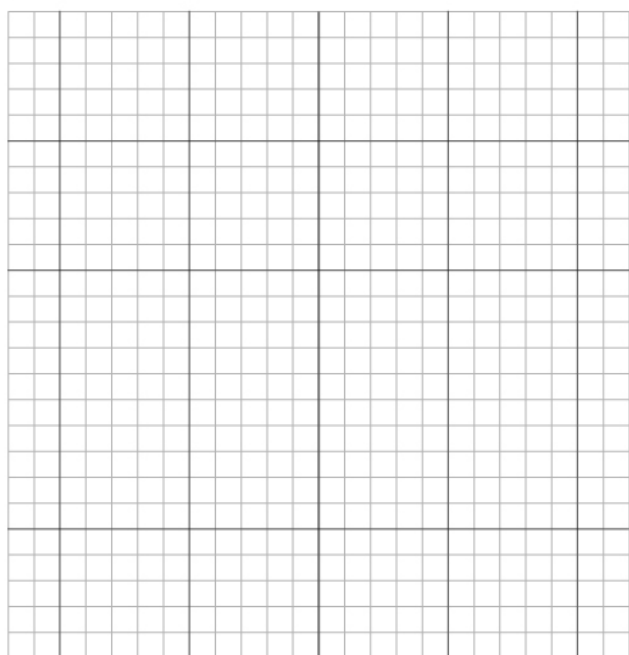
② $y = x^2 + 4x + 2$



Vertex : _____

Axis of symmetry : _____

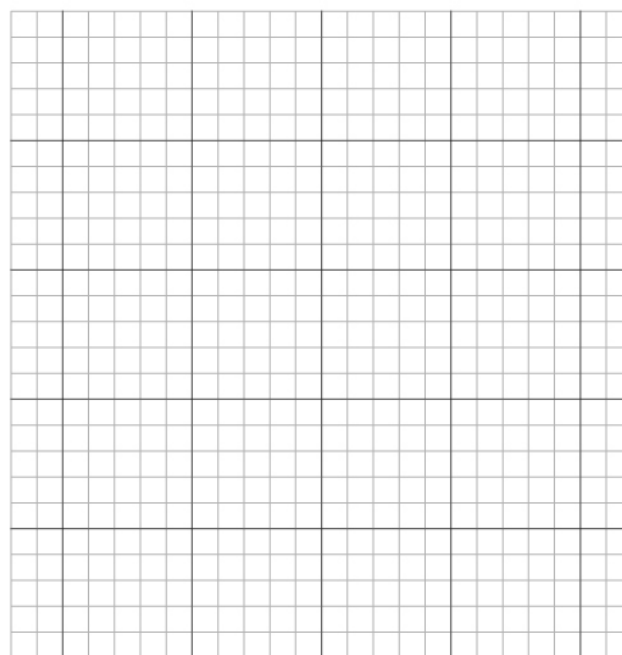
③ $y = x^2 - 6x + 9$



Vertex : _____

Axis of symmetry : _____

④ $y = -x^2 + 4$



Vertex : _____

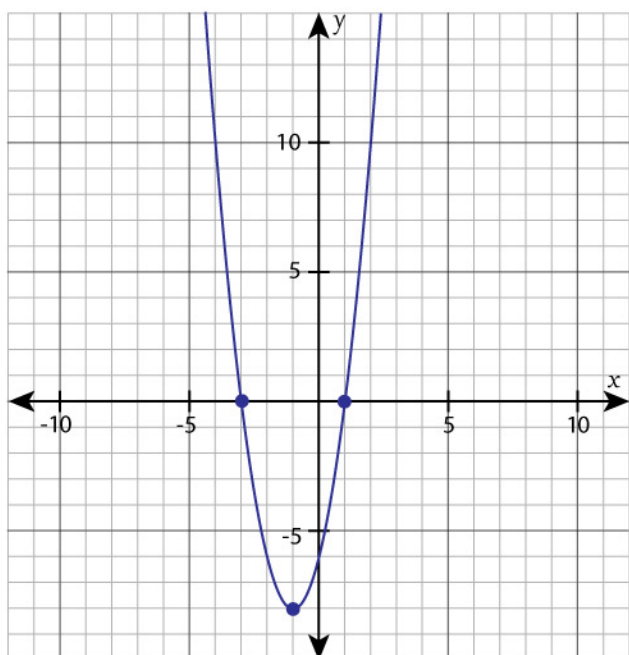
Axis of symmetry : _____

Graphing Quadratics

$$f(x) = ax^2 + bx + c$$

Answers

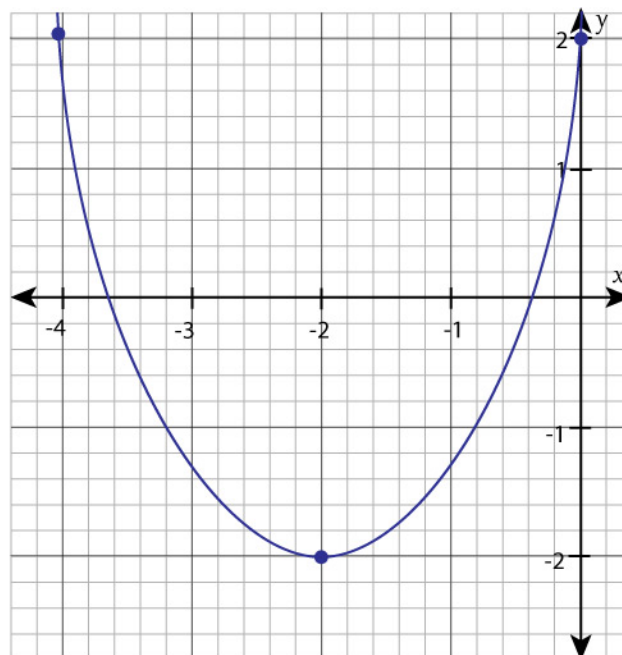
① $y = 2x^2 + 4x - 6$



Vertex : (-1, -8)

Axis of symmetry : x = -1

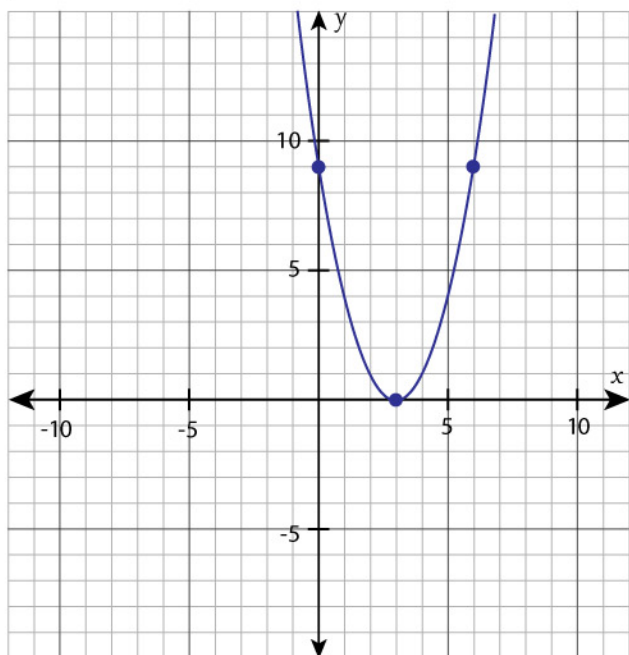
② $y = x^2 + 4x + 2$



Vertex : (-2, -2)

Axis of symmetry : x = -2

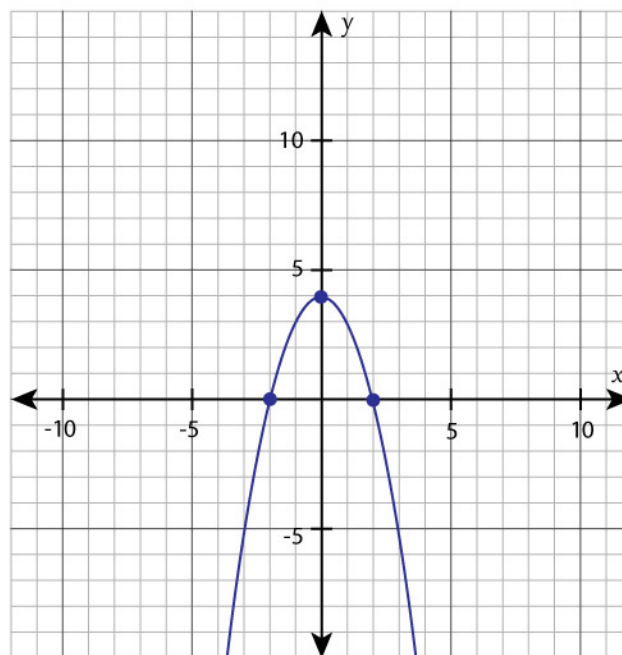
③ $y = x^2 - 6x + 9$



Vertex : (3, 0)

Axis of symmetry : x = 3

④ $y = -x^2 + 4$



Vertex : (0, 4)

Axis of symmetry : x = 0