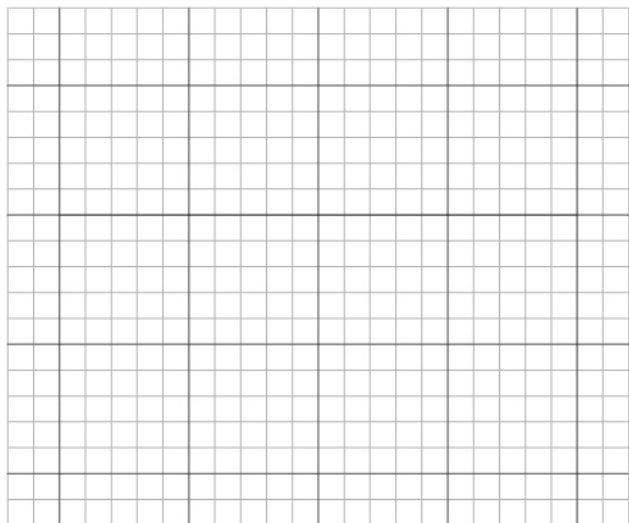


Graphing Quadratic Functions in Standard Form

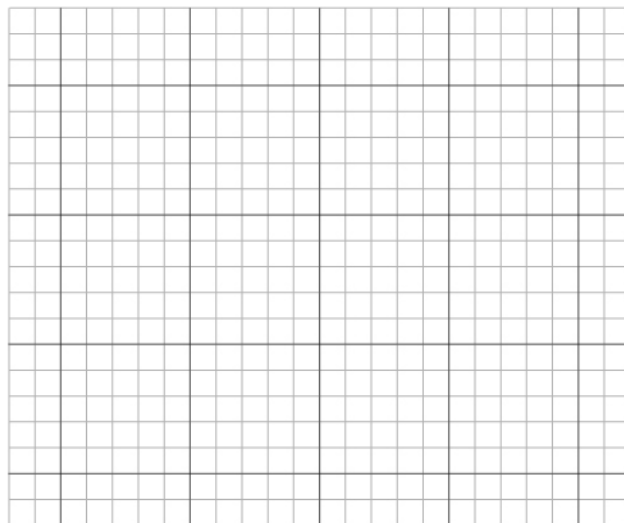
Draw graphs of the given quadratic equations and then solve the given questions.

① $y = 2x^2 - 1$



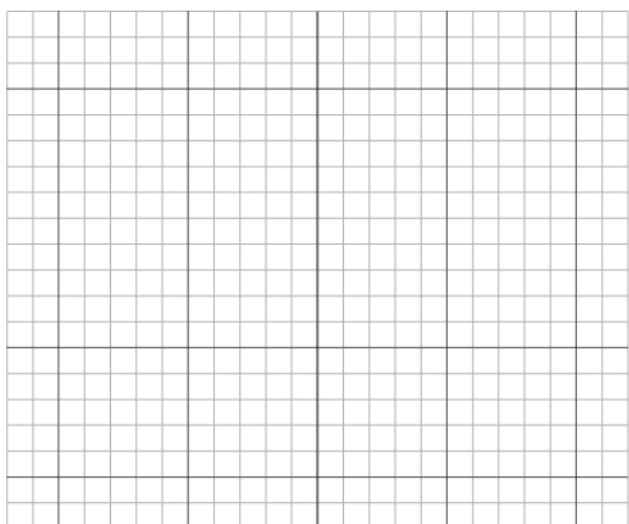
Type of graph : _____
 Is vertex a maximum or minimum? _____
 y-intercept : _____
 Axis of symmetry : _____
 Vertex : _____

② $y = 2x^2 + 4x + 3$



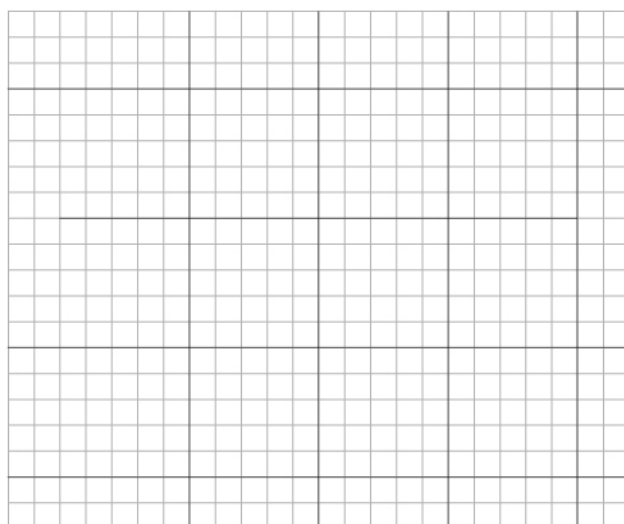
Type of graph : _____
 Is vertex a maximum or minimum? _____
 y-intercept : _____
 Axis of symmetry : _____
 Vertex : _____

③ $y = 2x^2 + 8x$



Type of graph : _____
 Is vertex a maximum or minimum? _____
 y-intercept : _____
 Axis of symmetry : _____
 Vertex : _____

④ $y = x^2 - 2x - 3$

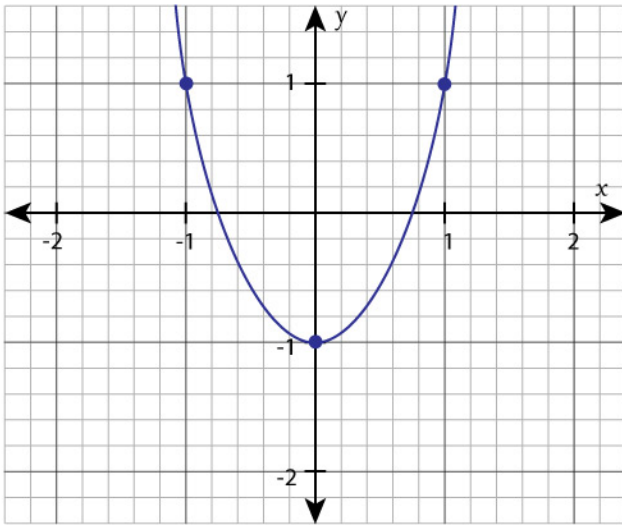


Type of graph : _____
 Is vertex a maximum or minimum? _____
 y-intercept : _____
 Axis of symmetry : _____
 Vertex : _____

Graphing Quadratic Functions in Standard Form

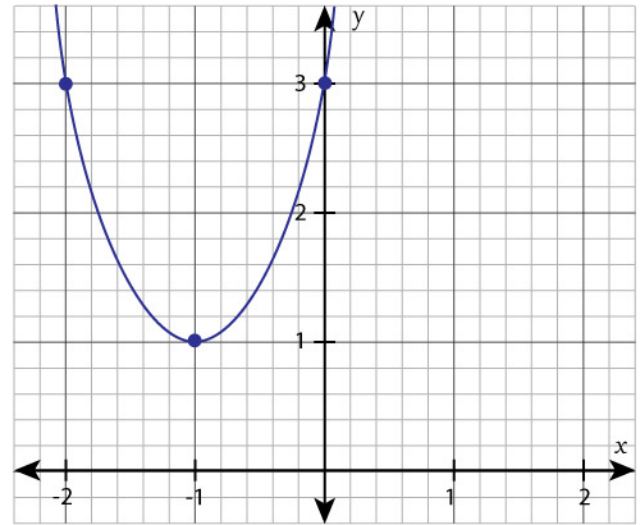
Answers

① $y = 2x^2 - 1$



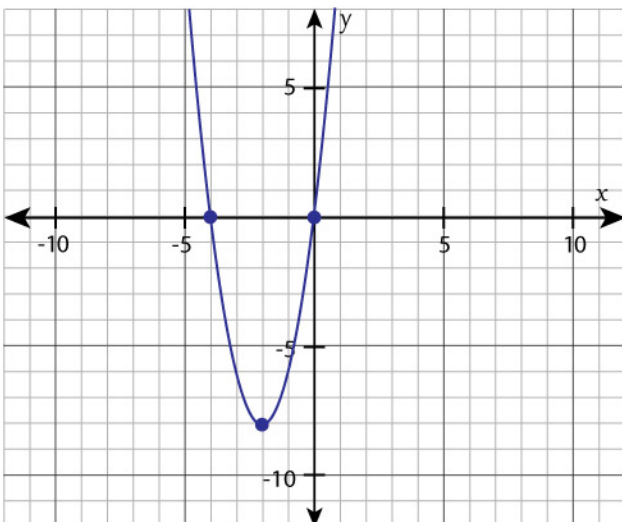
Type of graph : Opens up
 Is vertex a maximum or minimum? : Minimum
 y-intercept : (0, -1)
 Axis of symmetry : $x = 0$
 Vertex : (0, -1)

② $y = 2x^2 + 4x + 3$



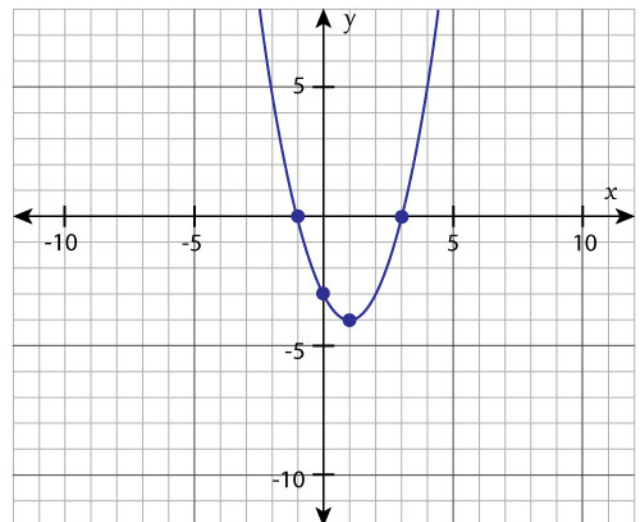
Type of graph : Opens up
 Is vertex a maximum or minimum? : Minimum
 y-intercept : (0, 3)
 Axis of symmetry : $x = -1$
 Vertex : (-1, 1)

③ $y = 2x^2 + 8x$



Type of graph : Opens up
 Is vertex a maximum or minimum? : Minimum
 y-intercept : (0, 0)
 Axis of symmetry : $x = -2$
 Vertex : (-2, -8)

④ $y = x^2 - 2x - 3$



Type of graph : Opens up
 Is vertex a maximum or minimum? : Minimum
 y-intercept : (0, -3)
 Axis of symmetry : $x = 1$
 Vertex : (1, -4)