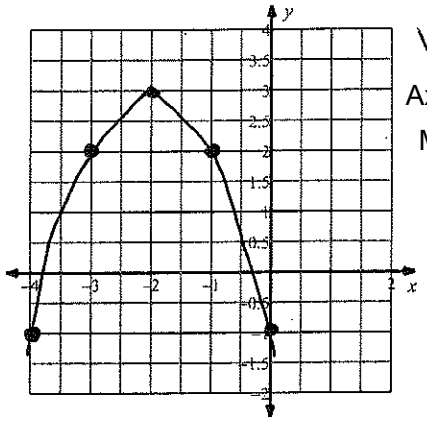
Algebra 1 Name_____

Quadratics Assignment

Date_____ Period____

Use your calculator to graph each of the functions. Idenitfy the axis of symmetry and vertex. Is the vertex a minimum or maximum?

1) $y = -x^2 - 4x - 1$

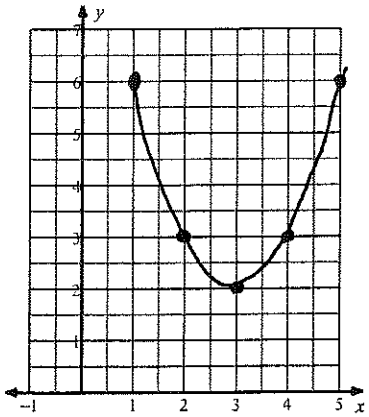


Vertex: (-2,3)

Axis of symmetry: -2

Max

2) $y = x^2 - 6x + 11$

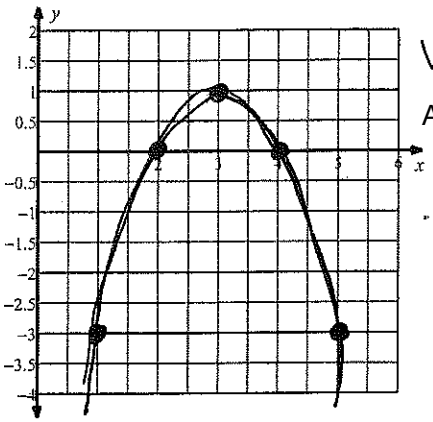


Vertex: (3, 2)

Axis of symmetry: 3

Min

3) $y = -x^2 + 6x - 8$

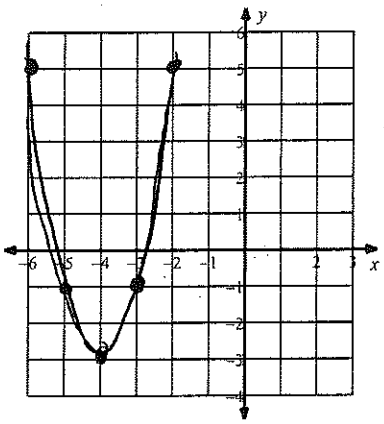


Vertex: (3,1)

Axis of symmetry: 3

Max

4) $y = 2x^2 + 16x + 29$

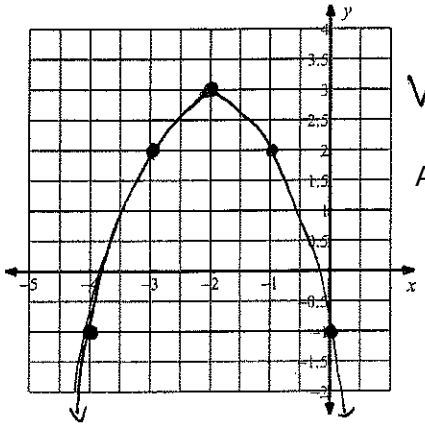


Vertex: (-4, -3)

Axis of symmetry: -4

Min

5) $f(x) = -x^2 - 4x - 1$

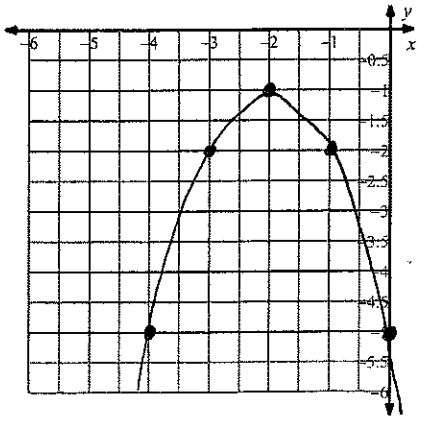


Vertex: (-2,3)

Axis of symmetry: -2

Max

6) $f(x) = -x^2 - 4x - 5$

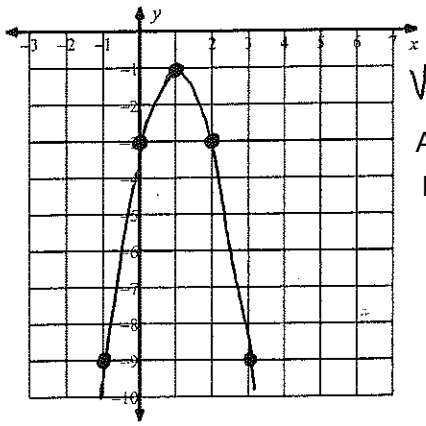


Vertex: (-2,1)

Axis of symmetry: -2

Max

7) $f(x) = -2x^2 + 4x - 3$

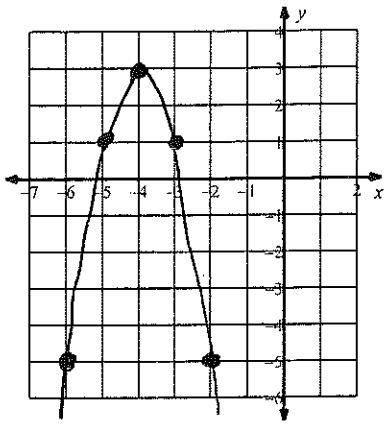


Vertex: (1, -1)

Axis of symmetry: -1

Max

8) $f(x) = -2x^2 - 16x - 29$

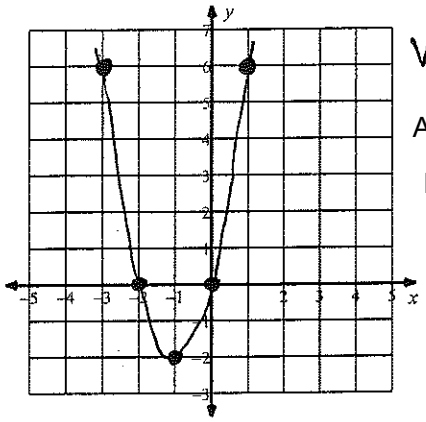


Vertex: (-4, 3)

Axis of symmetry: -4

Max

9) $y = 2x^2 + 4x$

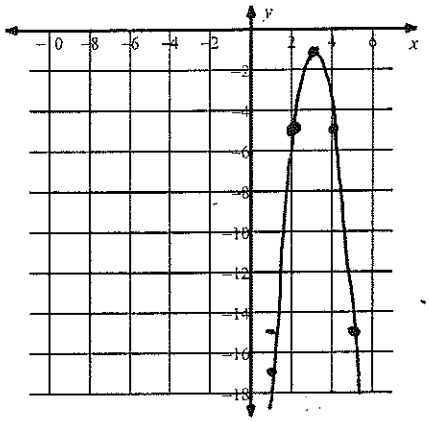


Vertex: (-1, -2)

Axis of symmetry: -1

Min

10) $y = -4x^2 + 24x - 37$

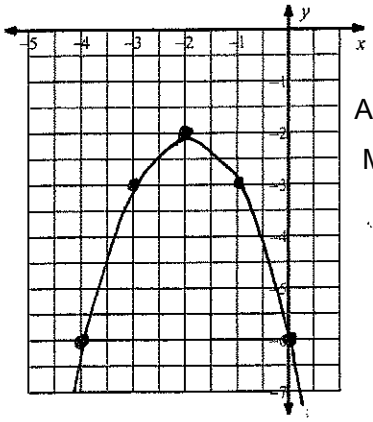


Vertex: (3, -1)

Axis of symmetry: -3

Max

11) $y = -x^2 - 4x - 6$

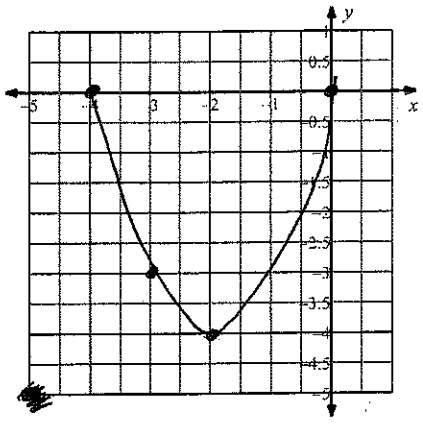


Vertex: (-2, -2)

Axis of symmetry: -2

Max

12) $y = x^2 + 4x$



Vertex: (-2, -4)

Axis of symmetry: -2

Min