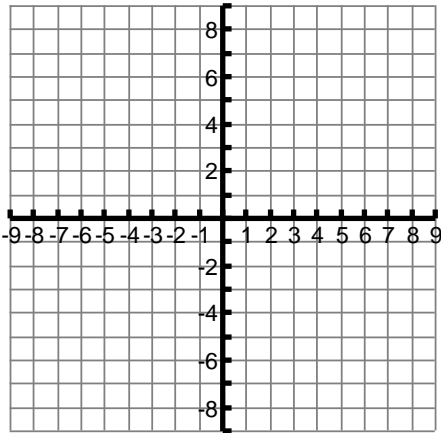


Graphing Quadratic Functions Assignment

Graph the following quadratic functions in **STANDARD FORM**:

For each function, (a) determine whether the graph opens upward or downward, (b) find the axis of symmetry, (c) find the vertex, (d) find the y-intercept, and (e) graph the function. (show all work and use the back for scratch)

1.) $y = x^2 - 2x - 8$



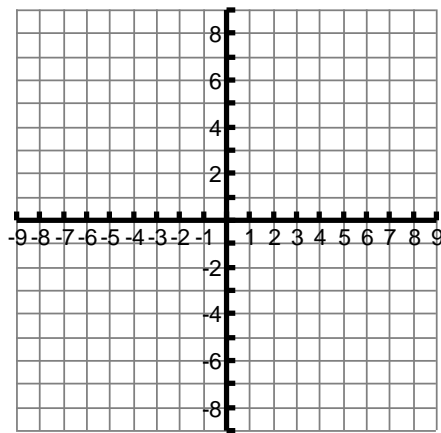
Up or down?

Axis of symmetry:

Vertex:

y-intercept:

2.) $y = x^2 + 6x + 9$



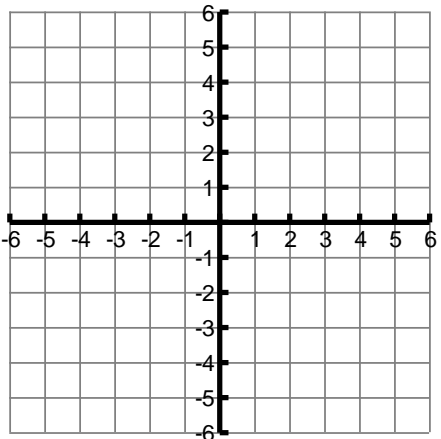
Up or down?

Axis of symmetry:

Vertex:

y-intercept:

3.) $y = -x^2 + 2x + 3$



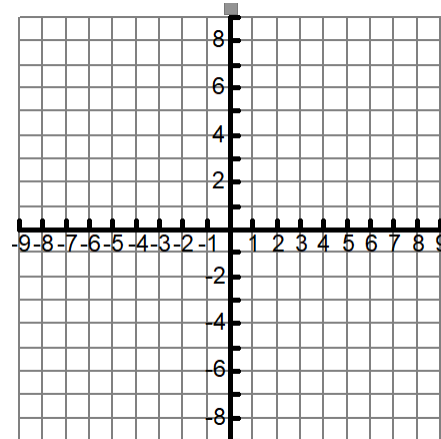
Up or down?

Axis of symmetry:

Vertex:

y-intercept:

4.) $y = -x^2 - 4x + 5$



Up or down?

Axis of symmetry:

Vertex:

y-intercept:
