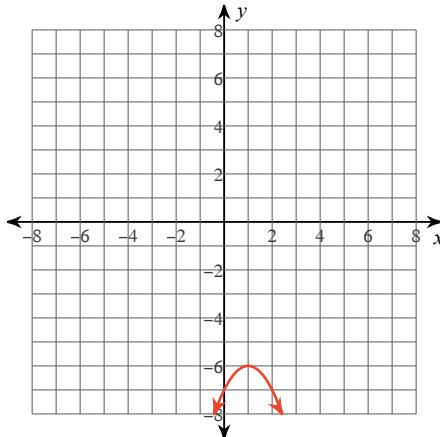


Graphing in Standard Form

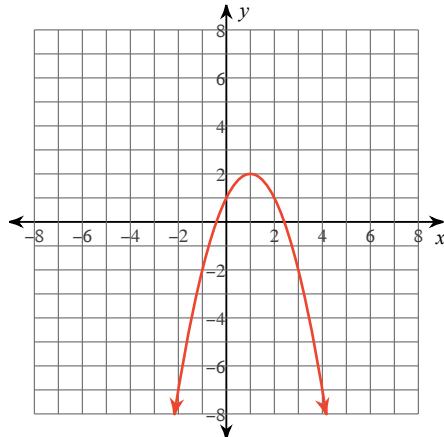
Date _____ Period ____

Identify the vertex, axis of symmetry, and min/max value of each. Then sketch the graph.

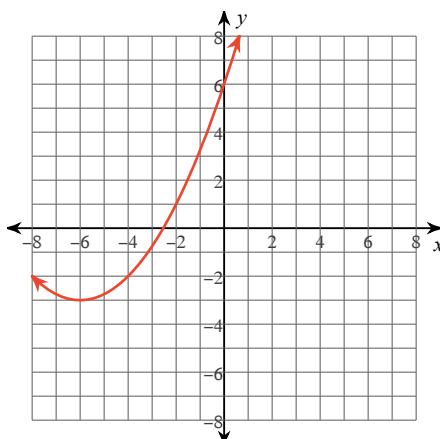
1) $f(x) = -x^2 + 2x - 7$



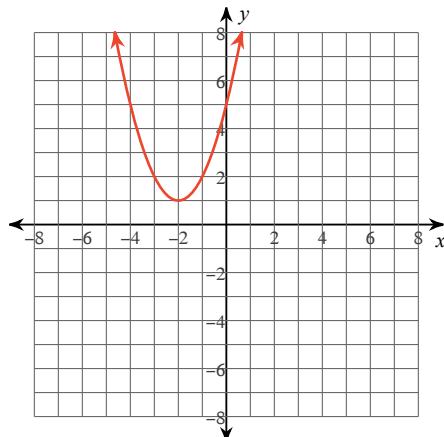
2) $f(x) = -x^2 + 2x + 1$



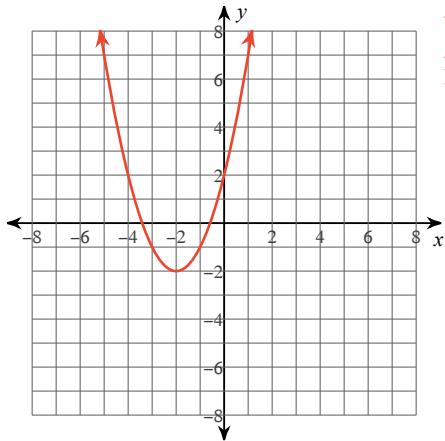
3) $f(x) = \frac{1}{4}x^2 + 3x + 6$



4) $f(x) = x^2 + 4x + 5$

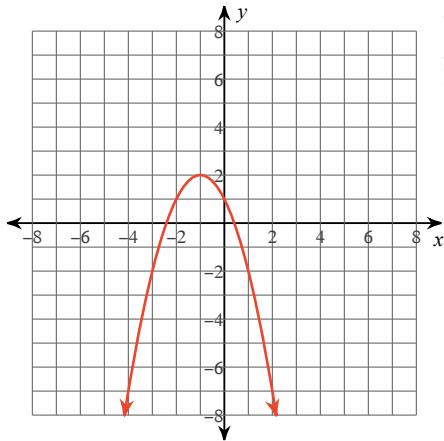


5) $f(x) = x^2 + 4x + 2$



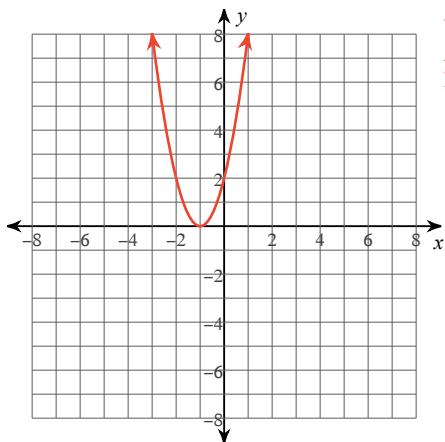
Vertex: $(-2, -2)$
Axis of Sym.: $x = -2$
Min value = -2

6) $f(x) = -x^2 - 2x + 1$



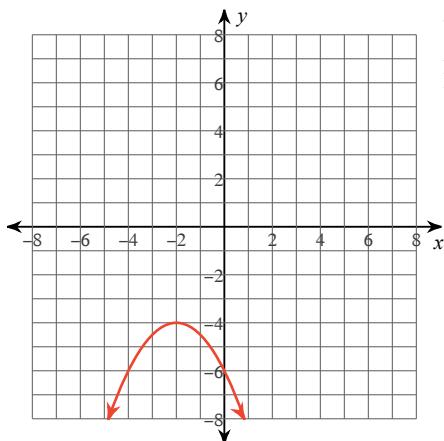
Vertex: $(-1, 2)$
Axis of Sym.: $x = -1$
Max value = 2

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



Vertex: $(-1, 0)$
Axis of Sym.: $x = -1$
Min value = 0

8) $f(x) = -\frac{1}{2}x^2 - 2x - 6$



Vertex: $(-2, -4)$
Axis of Sym.: $x = -2$
Max value = -4