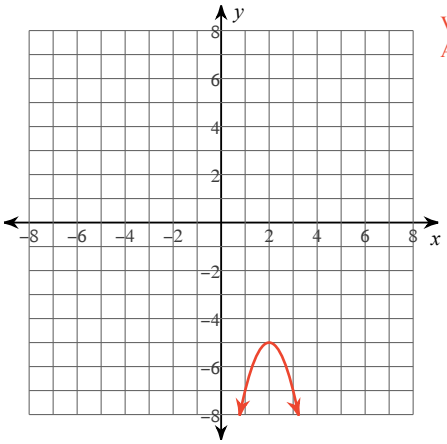
Algebra 2 Name_____

Graphing in Vertex Form

Date_____ Period____

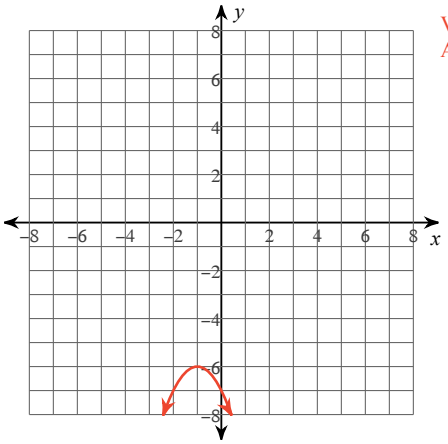
Identify the vertex and axis of symmetry of each, then sketch the graph. HINT: USE YOUR NOTES FROM LAST CLASS! Look at the notes posted online if you need.

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



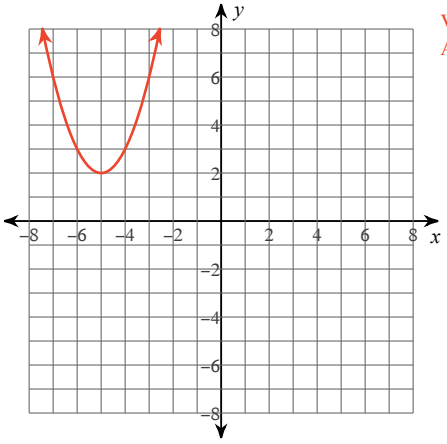
Vertex: $(2, -5)$
Axis of Sym.: $x = 2$

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



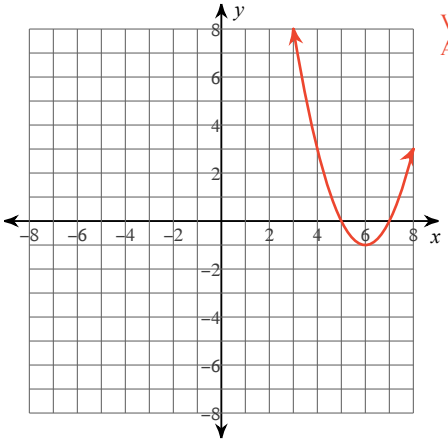
Vertex: $(-1, -6)$
Axis of Sym.: $x = -1$

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



Vertex: $(-5, 2)$
Axis of Sym.: $x = -5$

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



Vertex: $(6, -1)$
Axis of Sym.: $x = 6$