Worksheet 13 Graphing Quadratics in Standard Form

Sketch the graph of the quadratic function. Identify the vertex and *x*- and *y*-intercepts.

1	$f(x)=x^2-7$
2	$f(x)=(x+4)^2-3$
3	$f(x)=x^2-8x-16$
4	$f(x)=x^2+2x+1$
5	$f(x)=-x^2+2x+5$
6	$f(x)=2x^2-x-1$

Use a graphing calculator to graph the quadratic function. Identify the vertex and *x*-intercepts.

7	$f(x)=x^2+8x+11$
8	$f(x)=x^2+10x+14$

Write an equation for the parabola in standard form.

9	Vertex: $(-1,4)$ passing through the point $(-2,3)$
10	Vertex: $(-2,-1)$; Passing through the point $(0,3)$