Find all the parts and graph the quadratic function.

1. Graph: $g(x) = x^2 + 8x + 12$

Direction of opening:

X	g(x)

Vertex:

Maximum/Minimum:

Axis of Symmetry:

y-intercept:

x-intercept(s):

Domain:

Range:

2.	Graph:	f(x):	= -2(x-3	$)^{2} + 2$
		./ (**/	- (, . –

Direction of opening:

Х	f(x)

Vertex:

Maximum/Minimum:

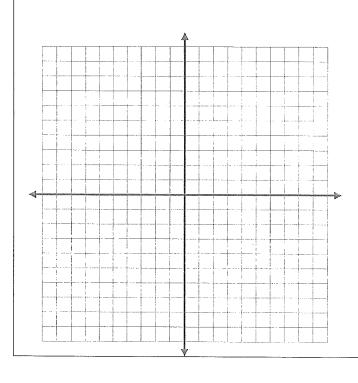
Axis of Symmetry:

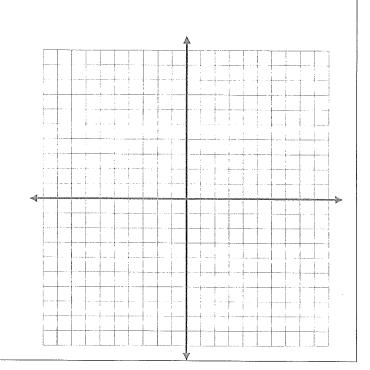
y-intercept:

x-intercept(s):

Domain:

Range:





Write a Quadratic Function Given a Graph in Vertex Form

7. After a heavy snowfall, Steve and Sara made an igloo. The dome of the igloo is in the shape of a parabola, and the height of the igloo in inches is given by the function $f(x) = a(x-h)^2 + k$. Use the graph to find an equation for f(x).

