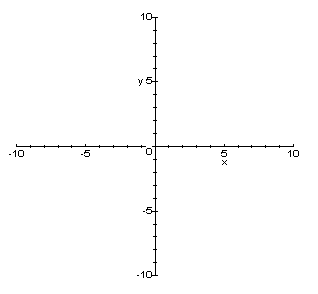
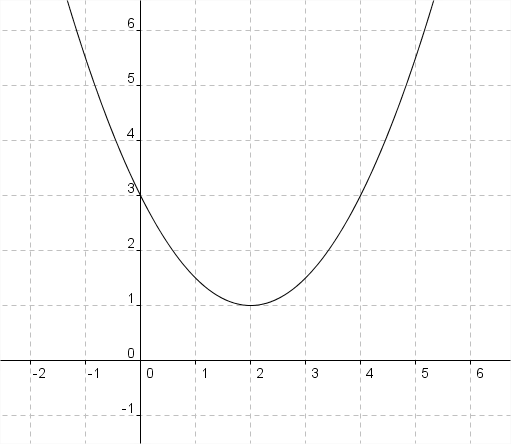
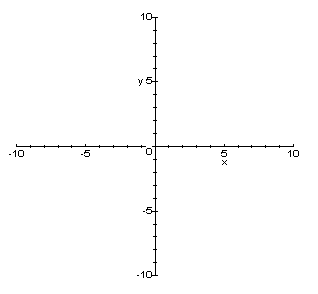
1. Sketch a graph of the following function, and label the vertex. ( /3 )

*f(x) = –2(x + 3)2 + 4*

**

1. What is the equation of the following graph? ( /2 )



1. Consider the quadratic function *f(x) = (x +1)2 – 9.*
   1. Graph the function on the axes below. ( /1 )
   2. Identify the following:
      1. the coordinates of the vertex ( /1 )
      2. the *x-* and *y-* intercepts ( /1 )
2. Consider the quadratic function *f(x) = 2(x-1)2 + 1.*
   1. What is the vertex of the function? ( /1 )
   2. Sketch the function on the given set of axes. ( /1 )

