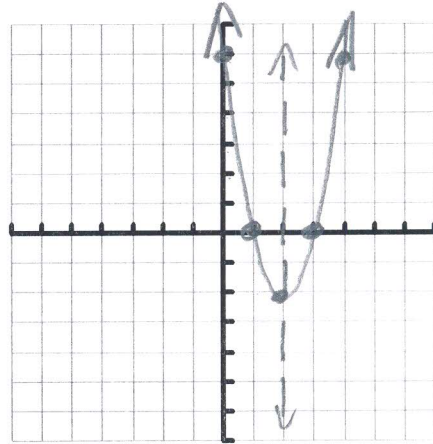


Graph each of the following quadratic functions. Identify the appropriate characteristics.

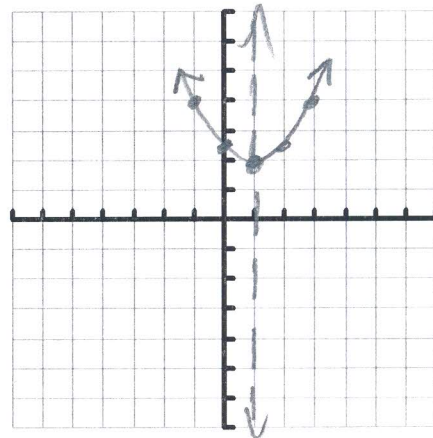
1.  $f(x) = 2(x-1)(x-3)$        $f(2) = 2(1)(-1)$

1st → x-Intercept(s): (1,0) (3,0)  
 Vertex: (2,-2)  
 Axis of Symmetry: x=2  
 y-intercept: (0,6)



2.  $g(x) = \frac{1}{2}(x-1)^2 + 2$

1st → x-Intercept(s): none  
 Vertex: (1,2)  
 Axis of Symmetry: x=1  
 y-intercept: (0, 2½)



3.  $f(x) = -x^2 + 4x - 3$        $x = \frac{-4}{-2} = 2$   
 $f(2) = -4 + 8 - 3$

1st → x-Intercept(s): (1,0) (3,0)  
 Vertex: (2,1)  
 Axis of Symmetry: x=2  
 y-intercept: (0,-3)

