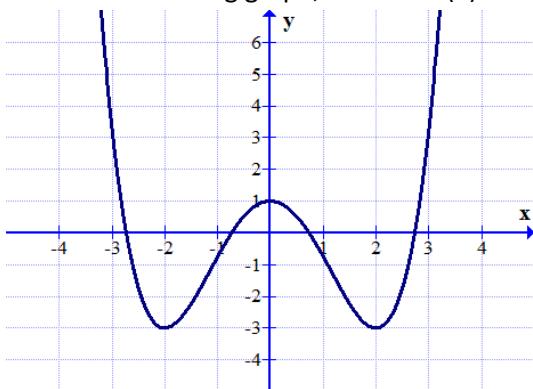
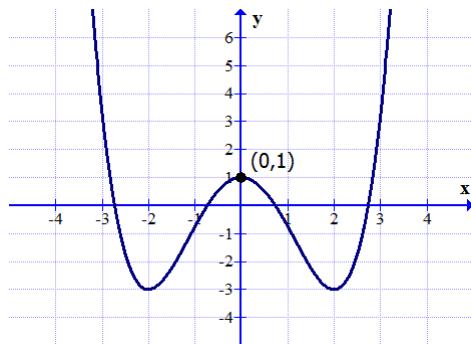


Given the following graph, evaluate  $f(0)$  and solve for  $f(x) = -3$ .



**Solution**

To evaluate  $f(0)$  means to find the output of the function when the input is 0. To do this, find the point on the graph that has an  $x$ -value of zero. This will be the place where the graph crosses the  $y$ -axis. For this function an input of 0 produces an output of 1. Therefore,  $f(0) = 1$ .



Solving  $f(x) = -3$ , means to find all input values that have an output value of -3. To do this find -3 on the  $y$ -axis and then find all points where the line  $y = -3$  intersects the graph of  $f(x)$ . The  $x$ -values of the points where  $y = -3$  crosses the function  $f(x)$  are your solutions to  $f(x) = -3$ . For this function the solutions would be  $x = -2$  and  $x = 2$ ,  $f(-2) = -3$  and  $f(2) = 3$ .

