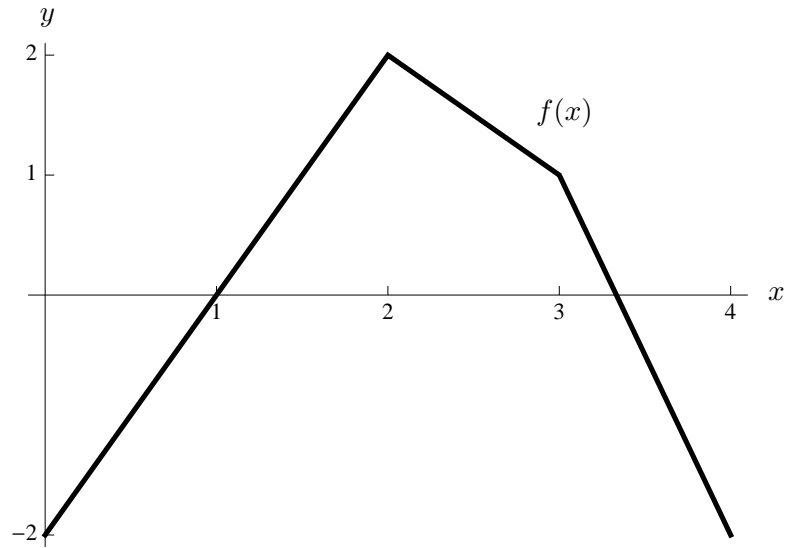


7. [11 points] Below is a picture of the function  $f(x)$ , which is piecewise linear. On the axes provided, sketch an *antiderivative*,  $F(x)$ , of the function  $f(x)$ , with  $F(2) = -1$ . To receive full credit:

- Label the points on the graph of  $F(x)$  where  $x = 0, 1, 2, 3, 4$ , including  $y$ -coordinates.
- Be sure the concavity and local extrema on the graph of  $F(x)$  are clear.



*Solution:*

