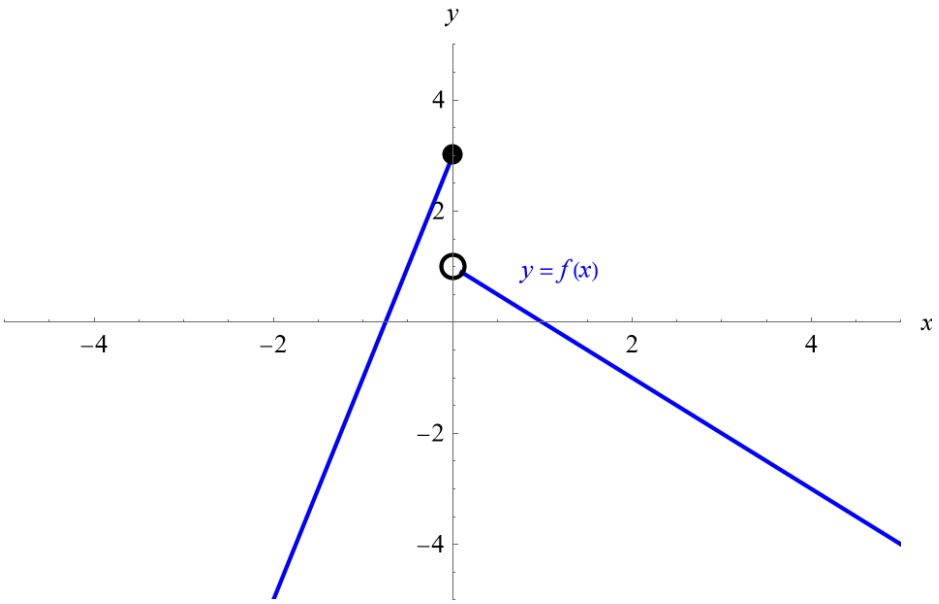
Exercise 94

For the following exercises, for each of the piecewise-defined functions, a. evaluate at the given values of the independent variable and b. sketch the graph.

$$f(x) = \begin{cases} 4x+3, & x \leq 0 \\ -x+1, & x > 0 \end{cases}; \; f(-3); \; f(0); \; f(2)$$

Solution



$$f(-3) = 4(-3)+3 = -12+3 = -9$$

$$f(0) = 4(0)+3 = 3$$

$$f(2) = -(2)+1 = -2+1 = -1$$